UPS







COMPANY PROFILE

Inform Electronic, one of the European leading power solution specialist, is established in 1980 with the aim of designing and building industrial electronic systems. Soon after, it diversified into the production, and marketing of standard professional electronic equipment, and special projects.

The company always combines its experience with its innovative identity and is recognized by its worldwide technology leading character. Right business understanding of Inform makes the company one of the most wanted brands in the world with its exceptional growth ratio. The Company has 31,000 m² closed production area, committed to the manufacturing of electrical products and electronic equipments.

Analysing infrastructural conditions, and customer needs, the company decided to provide complete solutions. Inform product range varies from Uninterruptible Power Supply (UPS) Systems, Voltage Regulators, to DC Power Supply, Telecom Equipments, Battery chargers, Inverters, 19" rack cabinets and other electrical products and electronic equipments.

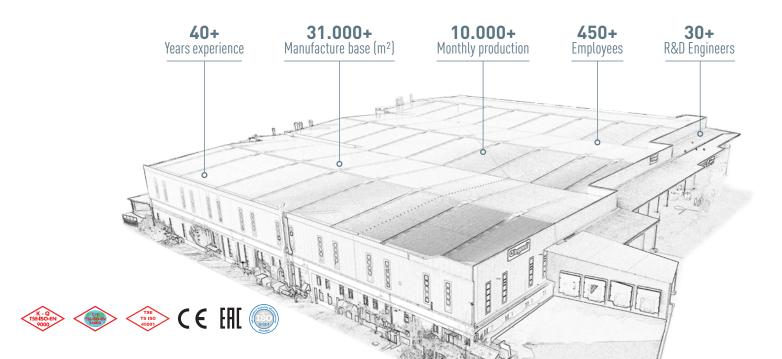
Since its foundation, INFORM ELECTRONIC has based its strategy on below main policies:

- Quality understanding for its products and services,
- Tailored solutions to specific customer needs,
- Customer satisfaction and happiness,
- After sales service and support
- Continuous improvement for operational excellence and advanced technology

Inform is an official ISO certified company. The company has also Gost, Soncap, and CE certifications. All the Inform products are designed and produced with the worldwide quality understanding, and ISO rules.

Inform was acquired by Legrand Group in 2010.

Legrand is global specialist in electrical and digital building infrastructures. The Group has direct presence in more than 70 countries and number of employee is more than 31.000 people.



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Distinguishing characteristics

High performance

The innovative design and high quality of the components used enable our UPS to achieve up to 96,5% efficiency, leading to significant energy savings.

Latest generation components

In-depth research on the best electronic components on the market combined with state-of-the-art manufacturing methods, make Inform UPS extremely reliable and abreast of the times.

Environmentally sustainable products

Efficient UPS built with maximum attention to detail. Moreover, Inform has developed an innovative testing system which reduces the energy consumed for each device manufactured.

Advanced technology

The On-line Double Conversion technology ensures a top quality power supply and maximum energy efficiency.

Reliable electronics

The optimum sizing of the power stages and thorough testing of each unit ensure excellent reliability.

High performance batteries

The batteries supplied with Inform UPS are the best on the market. The innovative charging system significantly





Range of application

Each type of UPS is characterised by different design properties, which means that the range is ideally suitable and usable in different environments, from domestic to tertiary and industrial sectors, and applications in specific fields.

DOMESTIC APPLICATIONS

Video surveillance, home alarms, smart TV, Home Entertainment systems

TRADE AND TERTIARY SECTORS

Offices, shops, points of sale

HEALTH AND HOSPITALITY SECTORS

Hospitals, medical centres, hotels

INDUSTRIAL AND LARGE TERTIARY STRUCTURE SECTORS

Factories, warehouses, shopping centres

TRANSPORT

Airports, rail and ship transport

DATA PROCESSING CENTRES

Datacenter





inform offers a range of UPS products that are divided into 2 different types of products: single-phase and three-phase.

The range is wide and complete, with solutions that guarantee maximum performance in terms of power and backup time.



Single-phase UPS





Modular

Three-phase UPS





Dsp Multipower Convertible



Dsp Flexipower



Saver Plus DSP



Dsp Multipower



Guardian Guardian LCD



İnformer Compact

Line Interactive



StarK



Estia UPS Estia Hybrid



Forte



Pyramid DSP Premium



Pyramid DSP



Pyramid DSP T



Solutio

Conventional

UPS PRODUCT RANGE

PRO	DUCT							POV	WER						
LIN	E INTERACTIVE	600 VA	800 VA	1000 VA	1500 VA	2000 VA	3000 VA								
ctive	GUARDIAN & GUARDIAN LCD	V	V	V	V	V									
Line Interactive	INFORMER COMPACT			V		V	V								
ONL	LINE UPS	1 kVA	2 kVA	3 kVA	5 kVA	6 kVA	10 kVA	15 kVA	20 kVA	30 kVA	40 kVA				
	SINUS EVO	V	V	V											
=	SINUS EVO RM	V	V	V											
1 Ph o	SINUS LCD /convertible	V	V	V											
Ph in -1 Ph out	DSP EV0					V	V								
<u> </u>	DSP MULTIPOWER /convertible				V	V	V								
	DSP FLEXIPOWER			V	V	V	V								
	DSP MULTIPOWER /convertible						V	V	V						
ŧ	DSP FLEXIPOWER						V								
Ph in - 1 Ph out	DSP MULTIPOWER / tower							V	V						
- ui y	SAVER PLUS DSP							V	V						
3 8	PYRAMID DSP						V	V	V	V	V				
	FORTE						V	V	V	V	V				
ONL	INE UPS	10 kVA	15 kVA	20 kVA	30 kVA	40 kVA	60 kVA	80 kVA	100 kVA	120 kVA	160 kVA	200 kVA	250 kVA	300 kVA	400 kVA
	STARK	V	V	V											
	ESTIA	V	V	V											
	FORTE	V	V	V	V	V	V	V	V	V	V	V	V		
h out	PYRAMID DSP Premium										V	V	V	V	V
Ph in - 3 Ph out	PYRAMID DSP Premium T										V	V	V	V	
3 Ph ir	PYRAMID DSP	V	V	V	V	V	V	V	V	V					
	PYRAMID DSP T	V	V	V	V	V	√	V	V	V					
	SOLUTIO													V	V
	MODULERA			V	V	V	V	V	V	V	V	V	V	V	V UP TO 800 kVA







Guardian & Guardian LCD

1 Phase In - 1 Phase Out / 600 VA - 2000VA

- Microprocessor controlled Line Interactive Technology
- Boost and Buck Automatic Voltage Regulation (AVR)
- LCD or LED Display Panel
- Advanced Battery Management (ABM)
- Input Frequency auto sensing (50/60 Hz)
- Auto restart after mains recovery
- Charging during switched off mode
- Short circuit and overload protection
- Cold Start Function
- RJ45 or RJ11 tel-modem surge protection
- USB Communication Interface and Remote Monitoring Software*
- Compact size and user friendly operation















MODEL	GUARDIAN LED - LCD A/AP						
Nominal Power (VA)	600VA	800VA	1000VA	1500VA	2000VA		
NPUT							
nput Voltage			220V / 230V				
nput Voltage Range			162-290VAC				
requency			50 or 60 Hz (Auto-sensing)				
UTPUT							
utput Power Factor			0.6				
utput Voltage (Battery)			220V or 230V ± 10%				
utput Waveform (Battery)			Simulated Sinewave				
utput Frequency (Battery)			50 or 60 Hz ± 1Hz				
Output Voltage Regulation (AVR)			tage by 15% above of input vo tage by 15% below of input vo				
ransfer Time			2 - 6 ms				
Outputs	1xSchuko +	1xIEC C13		2xSchuko + 2xIEC C13			
ATTERY							
Battery Type		Mai	ntenance Free Lead Acid Bat	teries			
Sattery Charge Duration			6 hours (90% capacity)				
Iominal DC Voltage	12V	DC		24VDC			
Battery Quantity	1 x 12V 7Ah	1 x 12V 9Ah	2 x 12V 7Ah	2 x 12	2V 9Ah		
Backup Time		7 - 20	min. (Depending on Comput	er Load)			
DISPLAY							
.ED Display			Online Mod, Battery Mod, Fa	ılt			
.CD Display (Optional)	Inp	ut & Output Voltage va	alues, AC mode, Load Level,	Battery Capacity Indicat	ors		
LARMS							
	Battery Mode (Eve	ry 10 seconds), Low B	attery (Every second), Overlo	ad (Every 0.5 seconds), I	ault (Continuous)		
PROTECTION							
		Short-circuit, Ove	rload, Battery overcharge-dis	charge, Tel/Modem			
COMMUNICATION							
nterface		RJ11 (@600-800VA),	RJ45 (@1000-2000VA), USB	Port (Only AP Models)			
NVIRONMENT							
perational Temperature		0-40 °C (20 to	25 recommended for longer	battery life time)			
lumidity			0 - 95% (non-condensing)				
loise Level (1m distance)			<40dBA				
Protection Level			IP20				
PHYSICAL							
let Weight (kg)	4.35	4.7	7.8	10.1	10.5		
Dimensions (WxDxH) mm	101x29	8x142	149.3x353x162	158x3	80x198		
TANDARDS							
Safety			EN 62040-1				
EMC		EN 62040-2					





Informer Compact

1 Phase In - 1 Phase Out / 1000VA/2000VA/3000VA

- Pure Sinewave Output for any critical load
- User Friendly LCD Display
- Boost and buck Automatic Voltage Regulation
- 97% High Efficiency in Normal Mode
- Communication Port and Remote Monitoring Software
- Overload and Short Circuit Protection
- Advanced Battery Management
- Discharge Protection
- Fault Alarms and State Warnings
- Cold Start Function
- Compact size, light weight and low noise













MODEL	INF-C1000	INF-C2000	INF-C3000				
Capacity (VA)	1000	2000	3000				
INPUT							
Voltage	220/230,	/240VAC ± 25% (adjustable from DIP switch	hes on ups)				
Frequency		50 or 60Hz ± 5%					
OUTPUT							
Power Factor		0.6					
Voltage(on mains)		220/230/240VAC ± 12%					
Voltage(on battery)		220/230/240VAC +3% -10%					
Wave Form		Sine Wave					
Output Voltage Harmonic (THDv)		THD < 3 %					
Frequency(on battery)		50 or 60 Hz ± 0.5%					
Voltage Regulation (AVR)		ase output voltage 15% above input voltag put voltage 15% below input voltage if +9%					
Transfer Time		4 ms.					
Overload		ally shuts down if overload exceeds 110% o f overload exceeds 100% of nominal at 10s					
Outlets	1 pc Schuko + 2 pcs IEC C13	1 pc Schuko + 3 pcs IEC C13	1 pc Schuko + 3 pcs IEC C13				
BATTERY							
Туре		Maintenance-free lead acid batteries					
Recharge Time		2 to 4 hours to 90%					
Voltage	24VDC	48	VDC				
Quantity	2x12V 7Ah	4x12V 7Ah	4x12V 9Ah				
Protection	Automatic s	self-test & discharge protection, replace ba	attery indicator				
DISPLAY	<u> </u>						
LED Display	Utility	Normal, Backup, UPS Fault and Battery of	condition				
LCD Display	Load Level, Battery Le	evel, Bypass, AVR, Battery Low-Replace-Fa	ault, UPS Fault, Overload				
ALARMS							
Alarms		Line Failure, Battery Low, Overload and Fa	ault				
PROTECTION							
	Spike Protection	(320 joule, 2 ms), overload protection, sho	rt circuit protection				
COMMUNICATION							
Interface (Communication Ports)		USB Standard					
Software		Standard					
ENVIRONMENT							
Operating Temperature		0-40 °C					
Humidity		0 - 95% (non-condensing)					
Audible Noise at 1m	< 40 dBA		5 dBA				
Protection Class		IP20					
PHYSICAL SPECIFICATIONS							
Net Weight (kg)	15.5	23	27				
Dimensions (mm) WxDxH	175x370x247	175x4	427x247				
STANDARDS							
Standards		EN 62040-1-1 (safety), EN 62040-2(EMC					









Sinus EVO

1 Phase In - 1 Phase Out / 1kVA - 3kVA

- On-Line Double Conversion Technology
- Real Digital Signal Processor (DSP) Controller
- User friendly LCD display
- High Efficiency
- Input Power Factor correction PFC (PF: >0.98)
- Wide Input Voltage & Frequency Range
- Cold Start Function
- Wide communication option Standard: USB, RS-232, EPO Optional: SNMP, Relay card
- Frequency Converter Operation Mode (50-60Hz)
- Generator compatible
- ECO Mode operation feature
- Environment friendly













MODEL	Sinus EVO 1K	Sinus EV0 2K	Sinus EVO 3K				
Nominal Power (VA)	1000	2000	3000				
INPUT							
Input Voltage Range*	110VAC - 300VAC						
Nominal Voltage	200*/208*/220/230/240VAC						
Frequency		50/60 Hz ±5% (Auto-sensing)					
Phase		1Ph - N - PE					
Power Factor		≥0.98					
OUTPUT							
Power Factor		0.9					
Output Voltage		200*/208*/220/230/240VAC					
Voltage Regulation		+2%					
Frequency		50/60 Hz					
Frequency Regulation		+0.1%					
Output Voltage Harmonic (THDv)		<3% (linear load); <5% (non-linear load)	adl				
Transfer Time	Online Mo	ode - Battery Mode: 0ms, Inverter - Bypa					
Crest Factor	Ontine M	3:1	sss (cypical)				
Overload		120% 60s, 150% 200ms					
Efficiency**	> 88%	120 /0 003, 130 /0 2001115	> 90%				
Outputs***	2xIEC + 1xSchuko	2,4150	C + 2xSchuko				
ECO mode	ZXIEC + IXSCIIUKU	Present	S + ZXSCITURU				
Frequency Converter		Present					
BATTERY		Fresent					
Battery Type		12 V / Maintenance-free lead acid batte					
Charge Time			eries				
		4 hour 90% capacity (typical) 1A (max.)					
Charge Current	24VDC	48VDC	72VDC				
Voltage							
QTY Cold Start	2 x 12V / 7Ah	4 x 12V / 9Ah	6 x 12V / 9Ah				
		Present					
DISPLAY	11:22		LIDO OK LIDO AL				
LED Display		Battery Low, Battery Abnormal, Overload,					
LCD Display	Input / Output Volt	age and Frequency, Load %, Battery Volta	ige, Internal Temperature				
ALARMS		M : (5 "				
		Mains fault, Low Battery, Overload, UPS I	Failure				
PROTECTION							
	Short circuit	, Over temperature, Overload, High voltag	je, Low battery, EPO				
COMMUNICATION****							
Standard	RS	232, USB, RJ45 (power surge-lightning p	rotection)				
Optional		SNMP and Relay Card					
ENVIRONMENT							
Operating Temperature / Storage		0°C ~ +40°C / -25°C ~ +55°C					
Temperature							
Humidity		0 - 95% (non-condensing)					
Altitude		0 - 1500 m					
Noise Level (1m distance)		< 50 dBA					
Protection Level		IP20					
PHYSICAL							
Net Weight - Gross (kg)	9.3 - 10.3	18.8 - 20.8	23.3 - 25.8				
Dimensions WxHxD (mm)	144x209x293	19	1x336x470				
STANDARDS							
	EN 62040-	1-1 (safety), EN 62040-2 (EMC), EN 62040)-3 (performance)				
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- 4				

^{*} Depends on the power rating and the amount of load at the output of UPS.

** It depends on UPS power and environmental conditions.

***Device outputs are optional, please contact your sales representative.

****Please contact to your sales representative for communication options.















Sinus EVO RM

1 Phase In - 1 Phase Out / 1kVA - 3kVA

- On-Line Double Conversion Technology
- Real Digital Signal Processor (DSP) Controller
- User friendly LCD display
- High Efficiency
- Input Power Factor correction PFC (PF: ≥0.99)
- Wide Input Voltage & Frequency Range
- Cold Start Function
- Wide communication option Standard: USB, RS-232, EPO Optional: SNMP, Relay card
- Frequency Converter Operation Mode (50-60Hz)
- Generator compatible
- ECO Mode operation feature
- Environment friendly



MODEL	Sinus EVO 1K RM	Sinus EVO 2K RM	Sinus EVO 3K RM				
Nominal Power (VA)	1000	2000	3000				
INPUT							
Input Voltage Range*	110VAC - 300VAC						
Nominal Voltage		208/220/230/240VAC					
Frequency		50/60 Hz ±5% (Auto-sensing)					
Phase		1Ph - N - PE					
Power Factor		≥0.99					
OUTPUT							
Power Factor		0.9					
Output Voltage		208/220/230/240VAC					
Voltage Regulation		±1%					
Frequency		50/60 Hz					
Frequency Regulation		± 0.1%					
Output Voltage Harmonic (THDv)		<3% (linear load); <5% (non-linear load)					
Transfer Time	Online Mo	de - Battery Mode: Oms, Inverter - Bypass: 4	ms (typical)				
Crest Factor		3:1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Overload	105%~110	%: 10 minute ,110%~130%: 1 minute, >130%:	5 seconds				
Efficiency**	> 88%	> 90					
Outputs		2xIEC + 1xSchuko					
FCO mode		Present					
Frequency Converter		Present					
BATTERY							
Battery Type		12 V / Maintenance-free lead acid batteries					
Charge Time		4 hour 90% capacity (typical)					
Charge Current		1A (max.)					
Voltage	24VDC	48VDC	72VDC				
QTY	2 x 12V / 9Ah	4 x 12V / 9Ah	6 x 12V / 9Ah				
Cold Start	·	Present	,				
DISPLAY							
LED Display	Utility or Bypass, B	attery Low, Battery Abnormal, Overload, UPS	Off, UPS Abnormal				
LCD Display	Input / Output Volta	ge and Frequency, Load %, Battery Voltage, Ir	nternal Temperature				
ALARMS		J					
		Mains fault, Low Battery, Overload, UPS Failur	ге				
PROTECTION							
	Short circuit,	Over temperature, Overload, High voltage, Lo	w battery, EPO				
COMMUNICATION							
Standard	RS2	32, USB, RJ45 (power surge-lightning protec	tion)				
Optional		SNMP and Relay Card					
ENVIRONMENT							
Operating Temperature / Storage		0°C ~ +40°C / -25°C ~ +55°C					
Temperature							
Humidity		0 - 95% (non-condensing)					
Altitude		0 - 1500 m					
Noise Level (1m distance)		< 50 dBA					
Protection Level		IP20					
PHYSICAL							
Net Weight (kg)	11.3	19.5	26.2				
Dimensions (mm) WxDxH (Rack)	440x325x86.5 (2U)	440x460x86.5 (2U)	440x600x86.5 (2U)				
STANDARDS							
		EN 62040-1-1 (safety), EN 62040-2 (EMC)					
		• • • • • • • • • • • • • • • • • • • •					

^{*} Depends on the power rating and the amount of load at the output of UPS. ** It depends on UPS power and environmental conditions..















Sinus LCD

1 Phase In - 1 Phase Out / 1kVA - 3kVA

- On-line 'double conversion' technology
- Real Digital Signal Processor (DSP) Controller
- Power factor correction PFC (PF: >0.99)
- User friendly LCD display
- Programmable Receptacles
- Wide input voltage range and frequency
- Availability to configure as 50/60Hz Frequency Converter from LCD Panel
- Smart communication port and SNMP management capability
- Hot Swappable Battery
- Emergency shutdown control through EPO
- Overload & short circuit protection
- Cold start (DC power on)
- Genius battery management (GBM)
- RS232, USB and SNMP can be activated simultaneously
- Compact size, light weight & low noise













MODEL	SS LCD 210	SS LCD 220	SS LCD 230
Power(kVA)	1	2	3
NPUT			
/oltage		160VAC - 288VAC	
requency		50/60 Hz ± 5% (Auto-sensing)	
Power Factor		>0.99	
DUTPUT			
Power Factor		0.8	
oltage		220VAC / 230 / 240VAC	
oltage Regulation		±1%	
requency		50/60 Hz	
requency Regulation		± 0.1%	
Output Voltage Harmonic (THDv)		<3%	
Crest Factor		3:1	
Output Waveform		Sinusoidal	
		100%-120% for 30 seconds	
Overload Capacity		120%-150% for 10seconds	
Vhole efficiency		35%	>88%
ransfer Time		0ms	20070
Outlets	6 pcs IEC C13 or 2pc Schuko	6 pcs IEC C13 or 2pcs Schuko	4pcs IEC C13 or 2pcs Schuke
BATTERY	o pes ize e io di zpe seriako	o pes into oi spes seriako	4pc3 120 0 10 01 2pc3 3c11dk0
ype		Maintenance-free lead acid batteries	
Recharge Time		3 hours (to 90% of full capacity)	
/oltage	36VDC	72V	nc .
nternal Battery	3pcs 12V 7Ah	6pcs 12V 7Ah	6pcs 12V 9Ah
Back Up Time Full Load		min	4 min
Half Load		min	10 min
Cold Start	12	YES	10 111111
DISPLAY		TE3	
	Itility or Pypage Pattony Low Patton	Abnormal, Overload, Site Wiring Fault,	Sarvica Mada LIDS Off LIDS Abno
_CD Display	Input /Output Voltage and	d Frequency Values, Load%, Battery Volt	ago Internal Temperature
ALARMS	iliput /Output voltage and	rrequericy values, Load 76, Ballery volt	age, internat remperature
ALAKMS	Line	Tailura Battarulau Ovanlaad Failura	Cuento
PROTECTIONS	Line i	Failure, Battery Low, Over Load, Failure	Events
PROTECTIONS	Chart Cinquit Ou	er Temperature, Overload, High Voltage,	Pattanul au FDO
COMMUNICATION	Short Circuit, Ove	er remperature, overtoad, riigh voltage,	battery Low, EPO
nterface		RS232 and USB	
		RSZSZ allu USD	
ENVIRONMENT		000 /000	
ENVIRONMENT Temperature		0°C - 40°C	
ENVIRONMENT Femperature Humidity		0 - 95% (non-condensing)	
emperature dumidity Noise Level(1m distance)		0 - 95% (non-condensing) <50dBA (at 1 meter)	
ENVIRONMENT Emperature Humidity Noise Level(1m distance) Protection Class		0 - 95% (non-condensing)	
emperature dumidity Noise Level(1m distance) Protection Class		0 - 95% (non-condensing) <50dBA (at 1 meter) IP 20	
ENVIRONMENT Temperature Humidity Noise Level(1m distance) Protection Class PHYSICAL Net Weight (kg)	16	0 - 95% (non-condensing) <50dBA (at 1 meter) IP 20	30
emperature dumidity Noise Level(1m distance) Protection Class PHYSICAL Net Weight (kg) Dimensions (mm) WxDxH (Rack)	16 440x450x88 (2U)	0 - 95% (non-condensing) <50dBA (at 1 meter) IP 20	30 440x650x88 (2U)
ENVIRONMENT Temperature Humidity Noise Level(1m distance) Protection Class PHYSICAL Net Weight (kg) Dimensions (mm) WxDxH (Rack)	440x450x88 (2U)	0 - 95% (non-condensing) <50dBA (at 1 meter) IP 20 29.5 440x650x88 (2U)	440x650x88 (2U)
environment Emperature Humidity Noise Level(1m distance) Protection Class PHYSICAL Net Weight (kg) Dimensions (mm) WxDxH (Rack) STANDARDS	440x450x88 (2U)	0 - 95% (non-condensing) <50dBA (at 1 meter) IP 20	440x650x88 (2U)
ENVIRONMENT Temperature Humidity Noise Level(1m distance) Protection Class PHYSICAL Net Weight (kg) Dimensions (mm) WxDxH (Rack) STANDARDS ACCESSORIES	440x450x88 (2U)	0 - 95% (non-condensing) <50dBA (at 1 meter) IP 20 29.5 440x650x88 (2U)	440x650x88 (2U)















DSP EVO

1 Phase In - 1 Phase Out / 6kVA - 10kVA

- On-Line Double Conversion Technology
- Microprocessor controlled
- High Output Power Factor (PF:0.9)
- Extended back up time with battery cabinet
- User friendly LCD display
- High Efficiency
- Wide Input Voltage & Frequency Range
- 3-stage smart battery charging method, automatic Battery Test mode
- Adjustable Battery voltage and charging current
- Cold Start Function
- Wide communication option Standard: USB, RS-232, EPO Optional: SNMP &, Relay card
- Load-controlled fan feature
- Frequency Converter Operation Mode (50-60Hz)
- ECO Mode operation feature
- Environment friendly













MODEL	DSP EV0 6K DSP EV0 10K					
Capacity (kVA/kW)	6kVA/5.4kW 10kVA/9kW					
NPUT						
Phase	1Ph+N+PF					
Nominal Voltage	220/230/240VAC					
nput Voltage Range*	120VAC-276VAC					
Nominal Frequency	50/60 Hz (Auto-sensing)					
requency Range	45/64 Hz (Auto Schsing)					
Power Factor	30.99 ≥0.99					
nput Current Harmonics (THDi)	≥0.77 ≤5% (100% linear load, input THDv≤1%)					
ilput Current narmonics (ThDI)						
Bypass Voltage Range	220Vac max:+25% (+10% ,+15%, 20% , 25%), 230Vac max: +20% (+10% ,+15%, 20%) 240Vac max: +15% (+10% ,+15%), min: default -45% (-20%, -30%, -45%,)					
Generator Input	Present					
DUTPUT						
Phase	1Ph+N+PE					
Nominal Voltage	220/230/240VAC					
Power Factor	0.9					
Voltage Regulation	±1%					
requency	50/60Hz /(±0.1%)					
Crest Factor	3:1					
Dutput Voltage Harmonic (THDv)	3:1 «3% @ linear load, «5% @ non linear load					
Vaveform	Pure Sinewave					
Efficiency** BATTERY	>>90%					
Battery Number	16/18/20 pcs (Adjustable)					
nternal Battery	20 x 12V 7Ah (Built-in as standard)					
Battery Type	VRLA					
Standard Charge Current	1A					
Charge Current (Max.)	6A (Adjustable)					
Charge Time (90%)	8~10 Hr. (Adjustable)					
Fransfer Time	Online Mode-Battery Mode: 0ms; Online Mode-Bypass: 0ms					
PROTECTION						
Overload	105% ~ 110%10 min. 110% ~ 130% 1 min, >130% switch to bypass immediately					
Short Circuit	System stops					
Over Temperature	Online Mode: switches to Bypass; Battery Mode: UPS shuts down immediately					
Battery Low	Alarm and Shutdown					
Self-Test	Software testing at startup					
EPO EPO	UPS shuts down immediately					
Battery	Advanced Battery Management					
ALARMS	Auvanceu battery Management					
Audible and Visual Alarms	Input fault, Low Battery, Overload, System fault					
DISPLAY	input rautt, Low Dattery, Overtoad, System rautt					
Status LED & LCD	Online Mode, Battery Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Failure					
_CD	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load %, Battery Voltage, Internal Temperature and Ambient Temperature					
PHYSICAL						
Dimensions - WxHxD (mm)	191x720x460					
Net Weight (kg)	60 61					
COMMUNICATION***						
	Standard:USB, RS232, EPO, Optional: SNMP and Relay card					
ENVIRONMENT						
Operating / Storage Temperature	0°C ~ +40°C / -25°C ~ +55°C					
Humidity	0 - 95% (non-condensing)					
Altitude	7 / 1500m					
Noise Level (1m distance)	< 55dB (ld1 mt)					
STANDARDS	NOODD (INT THE)					
CONAUNATO	CE, EN/IEC 62040-1-1, EN/IEC 62040-2					

^{*} Depends on the power rating and the amount of load at the output of UPS.

** It depends on UPS power and environmental conditions.

***Please contact to your sales representative for communication options.















DSP Multipower Convertible

1 Phase In - 1 Phase Out / 5kVA - 10kVA 3 Phase In - 1 Phase Out / 10kVA - 20kVA

- On-line 'double conversion' technology
- Real Digital Signal Processor (DSP) Controller
- Parallel redundant operation up to 4 units
- Input Power Factor Correction PFC
- High output power factor (PF: 0.9)
- Low total harmonic distortion (THD) level
- Convertible display helps to use both for tower and rack applications
- Transformerless Design
- Availability to configure as 50/60Hz Frequency Converter from LCD Panel
- High Performance with the PWM Sinewave Topology
- Cold Start Function
- Intelligent Battery Management System extends the life time of batteries
- Overload, Overheat & Short Circuit Protections
- User Friendly Multi-Functional LED/LCD Display Panel
- Energy Saving Mode (ECOMODE)
- Smart Fan Speed Regulation with temperature controlled
- RS232 Communication Port & Management Software
- Internal SNMP, DRY contact, RS485 card options











ODEL	DSPMP-1105	DSPMP-1106	DSPMP-1110	DSPMP-3110	DSPMP-3115	DSPMP-3120
ower (kVA)	4.5	5.4	10	10	15	20
PUT	4.5	5.4	9	9	13.5	18
ase Configuration		1Ph + N + PE (Hardwin	ral		3Ph + N + PE (Hardwire	
minal Voltage		220VAC/230VAC/240VA	7C		380VAC/400VAC/415VAC	-
nimum Voltage (at Half load)		160VAC	10		277VAC	'
nimum Voltage (at Full load)		180VAC			312VAC	
aximum Voltage		280VAC			485VAC	
equency		2001/10	45-	65 Hz	4001710	
equency ower Factor JTPUT			0.99		0.	.95
JTPUT						
wer Factor				0.9		
ase Configuration			1Ph + N + I	PE (Hardwire)		
ominal Voltage			220VAC / 23	OVAC / 240VAC		
ave Form				ine Wave		
stal Harmonic Distortion at 100% linear load				3%		
at 100% non-linear load				5%		
equency				łz (adjustable)		
equency Tolerance(free running)				.1 %		
requency Synchronized Range atic Voltage Regulation (0%-100% load)				z (selectable) 1%		
rest Factor				3		
eansfer Time			0	sec		
alisiei lillie				@100%~120%		
verload				@120%~150%		
vertoad				ypass @ >150%		
otal Efficiency	un to	90%		0 91%	up to	93%
reenmode efficiency	ар к	3 7 0 70		97%	up to	7070
utlets		External	Socket Box (2 pcs SCHU		ts) Optional	
ATTERY						
/pe			Maintenance-free	lead acid batteries		
echarge Time			4-6h u	p to 90%		
oltage		2/	40VDC			for 16 pcs
ottage			+0400		240VDC	for 20 pcs
uantity per string	20 pcs 12V Batteries				Batteries) or	
- ' · · · · ·	·				Batteries)**	
ternal batteries	20 pcs 12V 4.5Ah (inter	mal battery version only)			V/A	
uilt in max. Charge Current			1.6A		4	A
old Start			Pro	esent		
ISPLAY						
ED + LCD Display	Line	Mode, Backup Mode,	ECO Mode, Bypass Supp	ly, Battery Low, Battery I	Bad/Disconnect, Overloa	d and
1 2			Transferring with Int age, Output Current, Outp I, Front Panel Setting & S	erruption & UPS Fault		
CD display	Input Voltage, Input F	<u>-requency, Output Volta</u>	age, Output Current, Outp	out Frequency, Load Per	<u>centage, Battery Voltage</u>	& Inner Temperat
elf Diagnostics		Upon Power-on	i, Front Panel Setting & S	oftware Control, 24-hou	ir routine checking	
udible and Visual Alarms		Line Failu	ire, Battery Low, Transfe	r to Bypass, System Fau	lt Conditions	
ROTECTION		D 1 (1		1.00		
verload Protection hort Circuit Protection			ime is calculated by simu as the ideal current sou			
ther Protection			t excessive (heat,voltage,			
OMMUNICATION		Ayairis	t excessive (neat, voltage,	current, interise battery	uiscriarge	
terface (Communication ports)		Standard RS	232 port and optional RS	485 Internal SNIMP Dr	v Contact Cards	
NVIRONMENT		Standard No.	202 port and optionat No	403, IIIternat Sivivii , Di	y Contact Cards	
perating Temperature			U.C	. + 40 °C		
roposed Temp. to extend battery life				25 °C		
umidity				n-condensing)		
udible Noise at 1 m		<	50 dB	. condensing,	> 60) dB
rotection Class				20		
HYSICAL SPECIFICATIONS (tower position)						
et Weight (power module)	25	ōkg	26kg	28kg	36	kg
et Weight (with internal batteries)	55	oka	85kg with 9Ah battery	-		-
mensions (mm) (WxDxH)-power module (Rack)	440x680	0x88 (2U)	440x680	0x132 (3U)	440x720	x220 (5U)
mensions(mm) (WxDxH)- w/battery vers. (Rack)		x176 (4Ú)		-		-
TANDARDS						
andards		EN62040-1-1	(safety); EN62040-2 (EM	C);EN62040-3(performa	nce); EN60950-1	
CCESSORIES						
	Internal &	. External SMMP Dry C	ontact Roard External M	Ianual Bynass Rail Kit	External Battery Connect	ion Cable
	IIIterriato		al Socket Box, External A			don oubte,















DSP Flexipower

1 Phase In - 1 Phase Out / 3kVA - 10kVA 3 Phase In - 1 Phase Out / 10 kVA

- On-Line Double Conversion TechnologyReal Digital Signal Processor (DSP) Controller
- Power Factor Correction
- High output power factor
- Parallel redundant operation up to 4 units (excluding 3kVA)
- Integrated Manual Bypass (excluding 3kVA)
- Low total harmonic distortion (THD) level
- Transformerless Design
- High Performance with the PWM Sinewave Topology
- Cold Start Function
- Intelligent Battery Management System extends the life time of batteries
- Overload, Overheat & Short Circuit Protections
- Emergency Shutdown Control through EPO
 User Friendly Multi-Functional LED/LCD Display Panel
- Energy Saving Mode (ECOMODE)

 RS232 Communication Port & Management Software
- Internal SNMP, Dry contact and RS485 card options
- Possible to operate as 50Hz/60Hz Frequency Converter
- Extended Back up time with External Battery Cabinet











MODEL	FP1103	FP1105	FP1106	FP1108	FP1110	FP3110
Power (kVA)	3	5	6	8	10	10
Power (kW)	2.4	4.5	5.4	7.2	9	9
INPUT						
Phase Configuration			1Ph + N + PE			3Ph + N + PE
Nominal Voltage			220V/230/240V			380V/400V/415V
Minimum Voltage	160 V			80 V		320 V
Maximum Voltage	288 V		28	80 V		485 V
Frequency	± 5 Hz			45 - 65 Hz		
Power Factor			0.99			
OUTPUT						
Power Factor	0.8			0.9		
Phase Configuration	0.0		1Ph + N			
Nominal Voltage			220V / 230 / 240			
Wave Form			Pure Sine			
Total Harmonic Distortion at 100% linear load			<3%			
Frequency			50Hz or 60Hz l			
Frequency Tolerance (free running)			±0.2			
Static Voltage Regulation (0%-100% load)			<1%			
Crest Factor			3:1			
Transfer Time			0 se			
Transfer fillie	30 sec @ (106%-120%)		0.56	2min @ (100%-120%)		
Overload	10 sec @ (120%-150%)			30sec @ (120%-150%)		
	2001		Transfers to By			
Total Efficiency	≽90%			≽92%		
BATTERY						
Туре			Maintenance-free le			
Recharge Time (for Internal Battery)		1	4-6h up t			
Quantity per String	6pcs 12V Batteries			20 pcs 12V Batteries		
Voltage	72 VDC			240VDC		
Internal Batteries (Optional)			7Ah, 9			
Cold Start			Prese	nt		
DISPLAY						
LED + LCD Display	Line Mode, Back up Mod	de, Eco Mode, Bypass Su	pply, Battery Low, Batte	ry Bad/Disconnect, Over	load, UPS Fault, Interri	uption during transfer
LCD Display	Input Volta			quency, Load%, Battery		erature
Self Diagnostics		Upon Power On, From	nt Panel Setting and Thr	ough Software Control, 2	4h routine Check	
PROTECTION						
Overload Protection		Bypass transfer time	is calculated by simulat	ing a temperature relate	ed model of a fuse	
Short Circuit Protection		Acts as	the ideal current source	during the short circuit	time	
Other Protection		Against exc	essive (heat, voltage, cu	rrent) intense battery di	scharge	
COMMUNICATION						
Interface (Communication ports)		Standard RS232	port and optional RS48	5, Internal SNMP, Dry Co	ontact Cards	
ENVIRONMENT						
Operating Temperature			0 °C +	40°C		
Proposed Temp. to extend battery life			20 - 25	°C		
Humidity			0 - 95% (non-c	ondensing)		
Audible Noise at 1 m			<50 dB			<52 dB
Protection Class			IP 2	0		
PHYSICAL SPECIFICATIONS	<u></u>					
Dimensions(mm) (HxWxD)	449x226x454			585x254x710		
Weight - without battery (kg)	19		80		38	45
STANDARDS	***	`		·		
Standards			EN62040-1-1 (Safety)	EN42040-2 (EMC)		
ACCESSORIES			vozo+o-1-1 (Jaiety)			
	Internal Statement Children	Day Control Decay 14	itanian and Managa	Coffeen Labora LD 11	hamallalalan Annan d	Additional Chamin C :
Optional	Internal&External SNMP,	ury Contact Board, Mon	itoring and Managemen	t Sottware, Internal Bat	tery Holder Apparatus,	Additional Charging Set















DSP Multipower 3 Phase In - 1 Phase Out / 15kVA - 20kVA

- On-Line Double Conversion Technology
- Real Digital Signal Processor (DSP) Controller
- Paralel redundant operation up to 4 units (Optional)
- Increased Input Power Factor (PF:0.95)
- Transformerless Design
- Cold Start Function
- Overload, Overheat & Short Circuit Protections
- User Friendly Multi-Functional LED/LCD Display Panel
- Energy Saving Mode (GREEN MODE)
- Intelligent Battery Management System
- RS232 Communication Port & Management Software
- SNMP, Dry Contact, RS485, USB Card options











IODEL DSPMP-3115T		DSPMP-3120T				
Power (kVA)	15	20				
Power (kW)	13.5	18				
INPUT						
Phase Configuration	3Ph + N +	PE (Hardwire)				
Nominal Voltage	380VAC/400VAC /415VAC					
Minimum Voltage (at 75% Load)		77VAC				
Maximum Voltage		BSVAC				
Frequency		-65 Hz				
Power Factor (@linear load)		0.95				
OUTPUT		0.73				
Power Factor		0.9				
Phase Configuration		PE (Hardwire)				
Nominal Voltage		30VAC/240VAC				
9		Sine Wave				
Wave Form						
Total Harmonic Distortion at 0 to 100% linear load		<3%				
Frequency		Hz (adjustable)				
Frequency Tolerance (free running)		0.2%				
Frequency Synchronized Range		Hz (selectable)				
Voltage Regulation		±2%				
Crest Factor		3				
Transfer Time		Osec				
Total Efficiency		91%				
Greenmode Efficiency	>	95%				
BATTERY						
Туре	Maintenance-fre	e lead acid batteries				
Voltage	24	40VDC				
Quantity per string	20pcs 12	2V Batteries				
Built in max. Charge Current		4A				
DISPLAY						
LED + LCD Display	Line Mode, Backup Mode, ECO Mode, Bypas Overload and Transferring	ss Supply, Battery Low, Battery Bad/Disconnect, with Interruption & UPS Fault				
LCD display		Voltage, Output Current, Output Frequency, Voltage & Inner Temperature.				
Self Diagnostics	Upon Power-on, Front Panel Setting & S	Software Control, 24-hour routine checking				
Audible and Visual Alarms	Line Failure Battery Low Transfe	er to Bypass, System Fault Conditions				
COMMUNICATION						
Interface (Communication ports)	Standard RS232 port and optional RS	S485, Internal SNMP, Dry Contact Cards				
ENVIRONMENT	oraniana Nozoz por ana oprioriar n	o loo, internat or thin , bry contact cards				
Operating Temperature	U °C	- 40 °C				
Proposed Temp. to extend battery life		- 25 °C				
Humidity		on-condensing)				
Audible Noise at 1 m	<u> </u>	60 dB				
Protection Class		P 20				
PHYSICAL SPECIFICATIONS		. <u></u>				
Net Weight	60kg	62kg				
Dimensions (mm) (WxDxH)	<u> </u>	650x770				
STANDARDS	Z7UX					
Standards	ENI42040 1 1 (Safaty), ENI42040 2 (EM	C); EN62040-3 (Performance); EN60950-1				
ACCESSORIES	LINOZU4U-T-T (Satety); EINOZU4U-Z (EM	6), EN02040-3 (FeH0Hilance); EN00730-1				
Optional	Internal S Fitters I CNIMD D. C.	etect Board, External Manual Direct				
Орнонаг		ntact Board, External Manual Bypass, ternal Additional Charging Board Software				
	External battery Connection Cable, Ex	ternat Auditional Unarging Board Software				















Saver Plus DSP

3 Phase In - 1 Phase Out / 15kVA - 20kVA

- On-line 'double conversion' technology
- Real Digital Signal Processor (DSP) controlled, IGBT technology
- Wide input voltage range (140V-480V)
- Input Power Factor Correction PFC (PF: >0.97)
- Intelligent Battery Management System extends the life time of batteries
- Transformerless Design
- Small Dimensions
- Manual Bypass
- LCD display
- RS 232 and relay interface
- Management and monitoring software available for all operating systems and SNMP support











MODEL	SD3115	SD3120				
Power	15kVA	20kVA				
NPUT						
Nominal Voltage	380 V / 400V / 415					
Minimum Voltage	140V 3Phas					
Minimum Voltage (at full load)	260V 3Phas					
Maximum Voltage	480V 3Phas					
requency	50 - 60Hz (45 t	<u> </u>				
Nominal Current	17.4 A / phase	23.3 A / phase				
Maximum Current	53 A peak / phase	71 A peak / phase				
Power Factor	>0.97					
DUTPUT						
Power Factor	0.7					
Nominal Voltage	220V / 230V (ad	ljustable)				
Vave Form	Sinus					
Total Harmonic Distortion	< 3%					
requency	50Hz or 60Hz (a	diustable				
Voltage Regulation (Static)	1%					
Crest Factor	3					
Overload	> 30s (at 150 °	% load)				
Total Efficiency	> 91%	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
BATTERY	> 7170					
Type	Maintenance-free lea	d acid batteries				
Quantity per string	32pcs 12V Ba					
Voltage	32pcs 12v Ba					
Recharge Time for Internal Batteries						
Discharge Current						
Internal Batteries (Optional)	< 10%					
	12Ah Audible Buzzer through the end of Battery Discharge					
Warning DISPLAY	Audible Buzzer through the er	nd of Battery Discharge				
LED Panel	Line, Bypass, Battery, Inverter, (
LCD Panel	Load%, Battery Temperature, Input&Output	&Battery Voltages, Output Frequency				
STATIC BY-PASS						
Voltage Tolerance	10% (adjust					
Frequency Tolerance	3Hz (adjust	able)				
Transfer Time	0 ms					
PROTECTION						
Protections	Overload Protection, Short Circuit Protection, Hig	h Temperature, Over Voltage, Over Current				
COMMUNICATION INTERFACE						
Interface (Communication Ports)	RS 232					
Dry Contact Signals	Ups shutdown, mains failure, low batter	y, by-pass active, summary alarm				
ENVIRONMENT						
Temperature	0 - 40 °					
Suggested Temp. to extend battery life	20 - 25 °					
Humidity	0 - 95% (non-co	ndensing)				
Audible Noise (from 1m distance)	< 55 dE					
Protection Class	IP 20					
PHYSICAL SPECIFICATIONS						
Net Weight - without battery (kg)	103.5	108				
Dimensions (mm) (WxDxH)	430x870x9					
STANDARDS						
Standards	EN 62040-1-1 (Safety), E	EN 62040-2 (EMC)				
ACCESSORIES						
	External SNMP, Monitoring and Management Software, F	Remote Monitoring Panel Additional Charging Set				
Optional	Internal Galvanic Isolat					















StarK

3 Phase In - 3 Phase Out / 10 - 20kVA

- IGBT Rectifier & Inverter
- Real Digital Signal Processor (DSP) controlled
- Input Power Factor Correction PFC (PF: ≥0.99)
- Low Input Hotal Harmonic Distortioon Level (THDi < 3%)
- Wide Input Voltage Range
- High Output Power Factor (PF: 0.9)
- Cold Start Availability
- Increased Efficiency with Eco Mode Operation
- Transformerless design
- High Efficiency
- User Friendly LCD/LED Display Panel with functional keypads
- Static and Manual Bypass Built-in
- High charging current
- Fan Speed Control depending on internal temperature and load %
- Wide Communication Option
 - Standard: RS232, RS485 (ModBus) and EPO
 - Optional: SNMP, Relay card
- Increased battery supply time (optional)
- Low cost of installation and operating
- Compact dimension with internal battery placement availability













MODEL	STK 3310	STK 3315	STK 3320						
Capacity (kVA/kW)	10kVA/9kW	15kVA/13.5kW	20kVA/18kW						
INPUT									
Phase		3Ph + N + PE							
Nominal Voltage		380 / 400 / 415 VAC							
Input Voltage Řange*		208~478 VAC							
Frequency	50/60 Hz ±10% (Auto-sensing)								
Input Power Factor	>0.99								
Input Current Harmonics (THDi)	≤3%								
OUTPUT									
Output Power Factor		0.9							
Phase		3Ph + N + PE							
Nominal Voltage	380 / 400 / 415 VAC (Adjustable from the front panel)								
Output Voltage Harmonic (THDv)		<2% Linear Load <5% Nonlinear Load							
Frequency		OHz or 60Hz (Adjustable from the front pane							
Frequency Range	Utility Mode:	±1% ±2% ±4% ±5% ±10% of the rated frequ Battery Mode: (50/60±0.2%)Hz	ency (optional)						
Voltage Regulation		±1%							
Crest Factor		3:1							
Transfer Time	Online N	Mode-Battery Mode: Oms; Online Mode-Byp	ass: Oms						
Overload		n, <125%: last 10min, <150%: last 1min, >15 10min, <125%: last 1min, <150%: last 5s, >1							
Efficiency**	*	up to 94%	*						
BATTERY									
Type		Maintenance-free lead acid batteries							
Recharge Time (for Internal Bat- Itery)		4-6h up to 90%							
Internal Battery Quantity/Type (Standad)	16x12V 9 Ah	32x12	2V 9 Ah						
Battery Quantity (optional)	16/18/20 pcs (optional)	32/34/36/38/4	0 pcs (optional)						
Standard Charging Current	1.35A		7A						
Max Charging Current		6A (Adjustable)							
Cold Start		Present							
ALARMS									
Audible & Visual	Onl	ine Failure, Battery Low, Overload, System I	-ault						
DISPLAY									
Status LED & LCD	Line Mode, Byp	oass Mode, Battery Low, Battery Bad, Overlo	oad & UPS Fault						
LCD Display	Input Voltage, Input Frequen	cy, Output Voltage, Output Frequency, Load I	Percentage, Battery Voltage &						
1 7		Inner Temperature							
PROTECTION									
		Iverload, Short Circuit, Overheat, Battery Lo	W,						
COMMUNICATION***									
	Standard:R	S232, RS485, EPO Optional: SNMP card an	d Relay card						
ENVIRONMENT		(0000 0000							
Operating Temperature	0°C - 40°C	(20°C - 25°C recommended range for long	battery life)						
Storage Temperature		-25°C - +55°C							
Humidity		0 - 95% (non-condensing)							
Altitude		1500 m							
Noise Level (1m distance)		<55 dB							
Protection Class		IP20							
PHYSICAL	050 445 545		45.040						
Dimensions (mm) (WxDxH)	250x645x715		45x868						
Net Weigh (without batteries) (kg)	42	53	54						
Net Weigh (with batteries) (kg)	80	120	121						
STANDARDS		ENLOQUE 4 4 (C. () ENLOQUE 5 (E)							
		EN62040-1-1 (Safety); EN62040-2 (EMC)							

^{*} Depends on the power rating and the amount of load at the output of UPS.

** It depends on UPS power and environmental conditions.

***Please contact to your sales representative for communication options.















ESTIA UPS

3 Phase In - 3 Phase Out / 10 - 20 kVA

- On-Line ''Double Conversion'' technology
- Real DSP (Digital Signal Processor) Controlled Processor
- High Input Power Factor (PFC > 0.99)
- High Efficiency
- Low Input Current Harmonics (THDi < 3%)
- Low Output Voltage Harmonics (THDv < 1.5%)
- Easy-use LCD Display
- Energy Saving Mode (ECO Mode)
- Cold Start
- Redundancy and Power increase thanks to Paralleling feature (Optional)
- Wide Frequency and Voltage Range
- Smart Battery Management Software & Deep Discharge Protection
- Automatic Battery Test Feature
- Adjustable Battery Quantity
- External Battery Support for Long Backup time (Optional)
- Battery Recharge Support with High Current (up to 9A)
- Standard built-in Static and Manual Bypass
- Short circuit and Overload Protection
- Built-in Back Feed Protection
- Temperature Controlled Smart Fan Speed Regulation
- Frequency Converter Operation Mode Selection
- Generator Compatible Operation
- Advanced Event Records
- Statistical Daily Data Records
- Broad Communication Option Standard: RS-232, USB, EPO, GENSET, STS Sync

Optional: SNMP, Relay Card, Modbus

- Two Years Full Warranty in accordance with ISO 9001, ISO 14001, CE standards
- INFORM 7/24 Technical Support and Customer Services

















Estia

MODEL	ESTIA 10KVA	ESTIA 15KVA	ESTIA 20KVA						
Capacity (kVA/kW)	10kVA/8kW	15kVA/12kW	20kVA/16kW						
INPUT									
Phase Number		3Ph + N + PE							
Nominal Voltage		380 / 400 / 415 VAC							
Voltage Range (VAC) (100% Load)*		(-15%) (+20%)							
Voltage Range (VAC) (50% Load)*	[-45%] (+20%)								
Frequency	50/60 Hz ±10% (Auto Sensing)								
Input Power Factor		>0.99							
Input Current Harmonics (THDi) **	<3%								
OUTPUT									
Output Power Factor		0.8							
Phase Number	3Ph + N + PE								
Nominal Voltage	380	0 / 400 / 415 VAC (Adjustable from LCD me	nul						
Voltage Harmonics (THDv) **		: 1.5% (Linear Load), <3% (Nonlinear Load							
Frequency		50Hz or 60Hz (Adjustable from LCD menu	•						
		Mode: Rated frequencies ±1% ±2% ±4% ±5							
Frequency Tolerance	,	Battery Mode: (50/60±0.2%)Hz							
Voltage Regulation		±1%							
Crest Factor		3:1							
Transfer Time	(Online-Battery : Oms; Online-Bypass: Oms							
Overload	10 minutes at 11	10% load; 1 minute at 125% load; 10 secor	ds at 150% load						
Efficiency*		Up to 93%							
STATIC BYPASS									
Static Bypass Voltage Tolerance	380/400,	/415 VAC (Adjustable from LCD menu -159	% +12%)						
Static Bypass Frequency Tolerance		47 Hz - 53 Hz (Adjustable)							
BATTERY									
Туре		Maintenance-Free Dry Type							
Recharge Time (For Internal Battery)		4-6 hours up to 90%							
Battery Quantity (with Battery)	16x12V 9 Ah	24x12V 9 Ah	32x12V 9 Ah						
Battery Quantity (without Battery)	16-32 pcs (on request)	24-32 pcs (on request)	32 pcs						
Recharge Current (Max.)		max. up to 9A (Adjustable)	•						
Cold Start (Start-up in no mains)		Present							
ALARMS									
Audible & Visual	Main	s Failure, Battery Low, Overload, System I	- Fault						
DISPLAY									
Indicator LED & LCD	Online mod	e, Bypass mode, Battery Low,Overload & I	JPS Failure						
		ncy, Output Voltage, Current & Frequency,							
LCD Display		tery Voltage & Current, Battery backup tir							
PROTECTION	<u> </u>	Current, Crest Factor, Internal Temperatur	<u>e</u>						
PROTECTION	0 . 1 . 1 61	and the first transport of Ballion Ba	D'alland						
COMMUNICATION ***	Overload, Sn	ort circuit, High Temperature, Battery Dee	ep Discharge						
COMMUNICATION ***	C	OFFICE CTO COMIC OF THE COMIC DE	0						
	Standard:RS232, USB, EPU	, GENSET, STS SYNC Optional: SNMP, Dr	y Contact, Modbus (RS485)						
ENVIRONMENT CONDITIONS	202 4202 422	2.250							
Operation Temperature Range		C - 25°C recommended temperature for l							
Storage Temperature	-25°C - +55°C (15 - 40°C recommended temperature for	long battery life)						
Humidity		0 - 95% (non-condensing)							
Operational Altitude		1500 meter							
Noise Level (from 1m distance)		<60 dB							
Protection Class		IP20							
PHYSICAL SPECIFICATIONS									
Dimensions (mm) (WxDxH)	295x620x700	295x6:	20x875						
Differsions (film) (WXDXH)	/O.F	6′	1.8						
Weight (w/o battery) (kg)	48.5								
	48.5 90	128	145						
Weight (w/o battery) (kg)		128 Floor, Wheeled (Tower)	145						

^{*} Depending on rated power and load rate at the output

** Depending on UPS power and environmental conditions

*** Please contact with your sales representative for communication options

YENİLENEBİLİR ENERJİ SİSTEMLERİ













Estia Hybrid Solar UPS

3 Phase In - 3 Phase Out / 10-20 kVA

Get your energy from the sun with Inform's new generation HYBRID UPS.

UPS Operation Mode

The energy needed by the load is primarily provided from the grid. In case of failure or failure of the grid, the energy needed is supplied from the battery group inside the Estia Hybrid.

Off-Grid Inverter Operation Mode

The energy needed by the load is primarily provided from the sun. After sunset or when the panels fail to produce, the energy needed continues to be provided from the battery pack.

On-Grid Inverter Operation Mode

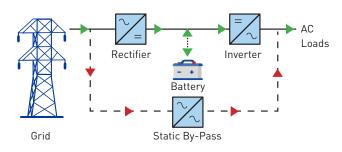
The energy needed by the load is provided primarily from the sun and is supplied from the grid where the solar energy is not sufficient. If the load is low, the energy generated from the solar panels is transferred to the grid.

Hybrid Inverter Operation Mode

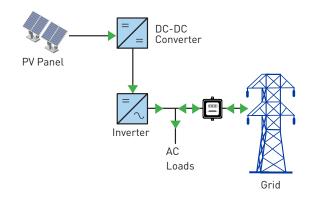
The energy needed by the load is provided primarily from the sun and is supplied from the grid where the solar energy is not sufficient. In case of failure or failure of the grid, the energy needed is supplied from the battery group in the Estia Hybrid.



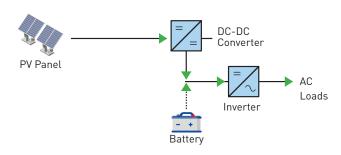
UPS Operation Mode



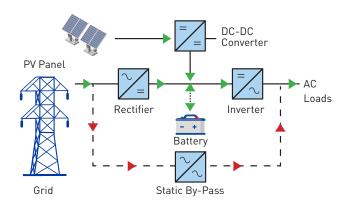
On-Grid Inverter Operation Mode



Off-Grid Inverter Operation Mode



Hybrid Inverter Operation Mode





Estia Hybrid Solar UPS

inform

TECHNICAL FEATURES

MODEL		Estia Hybrid 33010	Estia Hybrid 33015	Estia Hybrid 33020				
POWER	Output Power	10 KVA	15 KVA	20 KVA				
UPS OPERATION (<u>. </u>							
OI 5 OI ERAIION (Input Voltage - Phase number	380	/400/415 VAC / 3Ph+N+PE					
GRID INPUT (AC)	Input Voltage Range		100% load 195V-260V, 50% load 145V-260V					
GINID INFOT (AC)	Input Frequency Tolerance	100 % toat	45-65 Hz					
	Output Voltage - Phase number	380	/400/415 VAC / 3Ph+N+PE					
LOAD OUTPUT	Output Frequency	300	50 / 60 Hz					
(AC)	Overload	10min 100% Id	oad, 1min 125% load, 10sec 15	50% load				
	Static Bypass Voltage Tolerance		djustable from LCD front pane					
STATIC BY-PASS	Static Bypass Frequency Tolerance		.7 Hz - 53 Hz (Adjustable)					
D.1775DV.0	Battery Type		VRLA), Lithium Iron Phosphat	e / Gel / Lead Acid				
BATTERY &	Nominal Battery Voltage	192-384 VDC (16-32 Pcs 12V)	·	1				
CHARGE CONTROL								
	Max. Battery Charge Current		5A					
HYBRID OPERATION	ON (Grid-Battery-PV)							
	Max. PV Input Power		8000 W					
PV INPUT (DC)	Max. PV Voltage/MPPT Voltage range		600 VDC / 350-600 VDC					
. , (20)	Min. PV Operation Voltage		200 VDC					
	MPPT Number / Max. MPPT Inp. Current		1 / 24A					
GRID OUTPUT	Grid Output Voltage – Phase number		/400/415 VAC / 3Ph+N+PE	I				
(AC)	Grid Output Current (per phase)	12.1 A	18.2A	24.2 A				
	Grid Input Voltage Range		195V-260V, 50% load 145V-2					
GRID INPUT (AC)	Grid Input Current (per phase)	14.8 A	22.3 A	29.7 A				
DATTEDY 0	Automatic Operation Voltage		195-260 VAC					
BATTERY & CHARGE	Nominal Battery Voltage	192-384 VDC (16-32 Pcs 12V)	288-384 VDC (24-32 Pcs 12V)	384 VDC (32 Pcs 12)				
CONTROL	Max. Battery Charge Current		5A					
OFF-GRID OPERA	TION (Battery-PV)							
	Max. PV Input Power	8000 W	8000 W	8000 W				
	<u> </u>	166 VDC	250 VDC	333 VDC				
DV INDUT (DO)	Automatic Operation Voltage (Cold Start)			333 VDC				
PV INPUT (DC)	Max. PV Voltage/MPPT Volt. Range	600 VDC / 350-600 VDC						
	Min. PV Operation Voltage		200 VDC					
	MPPT Number / Max. MPPT Inp. Current	1 / 24A	1 / 24A	1 / 24A				
BATTERY &	Nominal Battery Voltage	192-384 VDC (16-32 Pcs 12V)	288-384 VDC (24-32 Pcs 12V)	384 VDC (32 Pcs 12\				
CHARGE CON-	Max. Battery Charge Current		5A					
TROL	Output Voltage - Phase Number	200	/400/415 VAC / 3Ph+N+PE					
LOAD OUTPUT (AC)	Output Frequency	360	50 / 60 Hz					
			30 / 60 HZ					
ON-GRID OPERAT			****					
	Max. PV Input Power		8000 W					
PV INPUT (DC)	Max. PV Voltage/MPPT Volt. Range		600 VDC / 350-600 VDC					
-	Min. PV Operating Voltage		200 VDC					
	MPPT Number / Max. MPPT Inp. Current		1 / 24A					
GRID OUTPUT	Grid Output Voltage - Phase Number		/400/415 VAC / 3Ph+N+PE	I				
(AC)	Grid Output Current (per phase)	12.1 A	18.2A	24.2 A				
GENERAL DATA								
EFFICIENCY	Euro Efficiency / Output Power Factor	92% / 0.8~1	92% / 0.8~1	92% / 0.8~1				
DISPLAY	Screen		4x16 LCD, LED Display					
COMMUNICA-	Interface / Other	RS-232. USB. Emergen	cy Power Off button (EPO), GE	ENSET. STS SYNC				
TION	Optional		S485, DryContact, SNMP	,				
	Storage / Operating Temperature Range		-25°C + 55°C / 0°C + 40°C					
E	Humidity / Protection Class	0-95% (non-condensing) / IP20						
ENVIRONMENT	Operating Altitude / Noise		0~1000 m / > 60dB					
	Cooling / Topology	Forced	Convection / Transformer-les	 SS				
	Dimensions (WxDxY)(mm)	295x620x700	295x620x					
DI WOLE : :				I				
PHYSICAL	Weight (w/o Battery)	48.5 kg	61.8 kg	61.8 kg				
FEATURES	Weight (12V 9Ah Internal Battery)	92 kg	130 kg	147 kg				
	Mounting Type	F	loor, with wheels (Tower)					
			0-1, IEC/EN 62040-2, IEC/EN					

















3 Phase In - 3 Phase Out / 10kVA - 250kVA 3 Phase In - 1 Phase Out / 10kVA - 40kVA

- 3 Level IGBT Rectifier & Inverter Technology
- Real Digital Signal Processor (DSP) controlled transformerless design
- High Output Power Factor (PF:1, kVA=kW)
- Increased AC-AC Efficiency (up to 96.5%)
- Unity Input Power Factor (PF: > 0.99)
- Low Input Current THD (<3%)
- Low Output Voltage THD (<2%)
- Wide input voltage range
- Built-in Static & Manual Bypass
- Soft Start Feature
- Parallel connection availability up to 8 units
- Adjustable Battery Qty with optional DC-DC Charger/Booster at 10-15-20kVA Compact version
- Intelligent battery management system extends the life time of batteries
- Colorful Graphical Multi-Functional TouchScreen LCD Panel
- Event Log Display up to 500 Events
- Advanced communication possibility via RS232
- MODBUS connection through RS 485
- Generator Port for Generator Friendly Operation
- EPO Port for Emergency Power Off
- 50/60Hz Frequency Converter Operation Mode (Adjustable from LCD Panel)
- Management and monitoring software available for all operating systems
- Communication with computers and network systems through Optional SNMP
- Optional Programmable 4pcs Relays for dry contact signals
- Compact dimension











High Efficiency, Real Economy

- High efficiency of up to 96.5%, reduces the operational cost and provides significant energy saving.
- Continuous Operation, Unique Operational Efficiency, Minimized occupied Installation Area, Maximum Power Delivery, Reduced Infrastructure Material Cost (cable, transformer, generator), Low Cooling Expenses, Optimized TCO (Total Cost of Ownership) features of FORTE guarantees fast return of your investment.





80-100kVA





FORTE

MODEL (380-400-415V 3ph version)	FORTE 33010	FORTE 33015	FORTE 33020	FORTE 33030	FORTE 33040	FORTE 33060	FORTE 33080	FORTE 33100	FORTE 33120	FORTE 33160	FORTE 33200	FORTI 33250
Power (kVA)	10	15	20	30	40	60	80	100	120	160	200	250
Active Power (kW)	10	15	20	30	40	60	80	100	120	160	200	250
MODEL	FORTE U33005	FORTE U33007	FORTE U33010	FORTE U33015	FORTE U33020	FORTE U33030	FORTE U33040	FORTE U33050	FORTE U33060	FORTE U33080	FORTE U33100	FORT U3312
200-208-220V 3Ph version)	5	7.5	10	15	20	30	40	50	60	80	100	125
Active Power (kW)	5	7.5	10	15	20	30	40	50	60	80	100	125
NPUT		7.0			20	- 00		00			100	120
Phase						3Ph+	N+PE					
Nominal Voltage							10V / 415V					
/oltage Range (100% Load)												
/oltage Range (50% Load)	-	(-15%) (+20%) (-45%) (+20%)										
Nominal Frequency (Hz)		50 or 60										
Frequency Range (Online Mode)							65Hz					
nput Current Harmonics (THDi) *							3%					
nput Power Factor	+),99					
DUTPUT							,,,,					
Output Power Factor							1					
Phase	-	-		-			N+PE	-				
Nominal Voltage	+				380// / //0		idjustable v	ia displavi				
Static Voltage Regulation @100% Linear Load	1				5561 / 40		1%	.a araptay)				
Output Voltage Harmonics (THDv) *	+						ear Load)					
Crest Factor	-	-		-			:1	-				
Frequency (Hz)							/ 60 Hz					
Frequency (1/2)							attery Mode	1				
	+			Online -	Battery Mo				nad 1 min			
Overload				Ontine			200% conti		000 1 111111			
Efficiency*					up to 96.5	5% (Online)	, 98.5% (EC	CO MODE)				
TATIC BYPASS LINE												
hase						3Ph+	N+PE					
Bypass Voltage Range				380\	/ / 400V / 41	5V (adjusta	ble via disp	lay: -15% +	-12%)			
Bypass Frequency Range					4	7 Hz - 53 H	z (adjustabl	.e)				
BATTERY												
Гуре					Mainten	ance-Free	Lead Acid E	Batteries				
Charge Current (A)				Non	ninal Charg	e Current x	0.1 (adjust	able via dis	play)			
Battery QTY STANDARD						6	0					
Battery QTY for FORTE-U version						3	34					
nternal Battery QTY STANDARD		60	pcs 12V 7-9	Ah								
Battery QTY COMPACT	20 - 52	30 - 52	36 - 52									
Battery Protection			De	ep Dischar	ge Protectio	n, Tempera	ature-comp	ensated Ba	attery Char	ging		
Battery Test					Stan	dard (Autor	matic & Ma	nual)				
FRONT DISPLAY PANEL												
Display					Screen wit							
Color Graphic Touch Screen TFT	Load %,	Input / Out			Output Powe						ery ± Voltag	e, Input
Event Log	-		Uut	put Freque	ncy, DC Bus		e checked v		at rempera	iture		
COMMUNICATION					Joopes (ut	etaits call b	e checkeu v	via uisptay)				
nterface (Communication Port)					RS232 & R	5/.05 MODE	RIIC & CNIM	ID (ontional	<u>. </u>			
	- 4r	ncs Relays (configurabl	e to · " Gen	eral Alarm"					Failure" "B	vnass Activ	/e"
Ory Contact Signals (Optional)							Overload",		. , Output	altare , E	y pass / tetiv	,
Others as standard					High Ter	mperature"	Dry contac	t signals:				
ENVIRONMENT												
itorage Temperature (°C)				'-25°C - +'	70°C (15 - 4	0°C recom	ended for lo	nger batte	ry life time]			
perating Temperature (°C)				0 - 40°C	C (20 - 25 °C	recomen	ded for long	jer battery	life time)			
Relative Humidity					0 -	- 95% (non	-condensin	g)				
perating Altitude (maximum m.)						100	10 m					
Protection Class							20					
Standards					ety), EN 620							
PHYSICAL SPECIFICATIONS	FORTE 33010 U33005	FORTE 33015 U33007	FORTE 33020 U33010	FORTE 33030 U33015	FORTE 33040 U33020	FORTE 33060 U33030	FORTE 33080 U33040	FORTE 33100 U33050	FORTE 33120 U33060	FORTE 33160 U33080	FORTE 33200 U33100	FORT 3325 U3312
			5 x 110	- 055015	1	9 x 131		7x165			033100 0 x 185	
Dimensions (WxDxH) (cm) - STANDARD		1	1	122	180	202	253	285	405	522	570	600
Dimensions (WxDxH) (cm) - STANDARD Veight (w/o battery) kg - STANDARD	100	114	116	12/								
Dimensions (WxDxH) (cm) - STANDARD Veight (w/o battery) kg - STANDARD Dimensions (WxDxH) (cm) - COMPACT				122	100	202	200				1	
Veight (w/o battery) kg - STANDARD		27 x 80 x 10		122	100	202	200					

 $^{^{\}ast}$ May vary depending on UPS power & Load & Environmental Conditions.















Pyramid DSP Premium

3 Phase In - 3 Phase Out / 160 - 400kVA

- High Output Power Factor (PF: 0.9)
- Graphical Touch Screen Front Display Panel
- IGBT Rectifier
- Real Digital Signal Processor (DSP) controlled transformerless design
- Input Power Factor Correction PFC (PF: >0.99)
- High Efficiency (up to 95%)
- Wide Input Voltage Range
- Generator Compatible Operation
- Evolution and redundancy guaranteed by on site Modular Parallel Systems
- Intelligent battery management system extends the lifetime of batteries
- Static and Manual Bypass
- EPO (Emergency Power Off)
- Communication with computers and network systems with SNMP availability
- Expandable battery blocks
- Low installation and operating costs
- Different voltage applications with refer to country mains characteristic











ACCESSORIES

Communication

- Remote Monitoring Panel &25m Cable For Remote Panel
- UPSMAN (Management Software)
- Multiserver Shutdown Licence
- Internal SNMP kit: Internal Slot Card SNMP CS141BSC or CY504, slot box, cable
- External Adapter SNMP Adapter Net Agent Mini DY 522 SNMP Adapter CS141BL

Other

- Split By-pass
- Parallel Kit
- Drawer Type Internal Battery Shelves 10 30kVA
- Special Battery Connection Cable for Drawer Type Shelves

Battery Cabinets

- UPS looking battery Cabinets (different battery configuration available) V14, V15, V24, V33, V34
- Eco Cabinets (different battery configurations available) BC00, BC10, BC20, BC30, BC40, BC50, BC60





Pyramid DSP Premium

MODEL	PDSP-P 33160	PDSP-P 33200	PDSP-P 33250	PDSP-P 33300	PDSP-P 33400				
Output power (kVA)	160	200	250	300	400				
Nominal Active Power (kW)	144	180	225	270	360				
INPUT			451 11 55						
Number of phases Nominal Voltage (3ph Phase to			3Ph+N+PE						
Phase]			380V/400V/415V						
Voltage range		[-15%] (+27%)							
Voltage range (64% load)		(-45%) (+27%)							
Voltage range (42% load)			[-64%] [+27%]						
Nominal Frequency (Hz)			50 or 60						
Frequency range for online operation			±10%						
Input Current Harmonics (THDi)(*) (**)			≤4%						
Input Power Factor			>0.99						
OUTPUT									
Power factor			0.9						
Number of phases			3Ph+N+PE						
Voltage (3ph Phase to Phase)			380V/400V/415V						
Static Voltage Regulation at 100% Linear Load (online&battery mode)			<1%						
Output Voltage Harmonics (THDv)			<3% (linear load)						
Crest factor			3:1						
Frequency (Hz)			50 or 60						
Free Running Frequency (Hz)			± 0.01%						
Overload		10		1 minuta					
		12;	5% for 10 minutes, 150% for	i minute					
Efficiency (**)			up to 95%						
BATTERY									
Туре		M	aintenance-free Lead Acid B	atteries					
Quantity (pcs)			60 (2*30)						
Battery Protection	De		with Auto Cut off, Temperatu		Charge				
Battery Test			Standard (Automatic and Ma	anual)					
DISPLAY		0 1: 15: 0:	() i D :::	B	<u> </u>				
3.5" Graphical Touch Screen	Input & Output Fred	quency, Voltage & Curren	am for Line, Rectifier, Bypass t, Load Power Factor, Load% /oltage, Current & Temperati	, Load Active & Apparent F					
STATIC BYPASS									
Number of phases			3Ph+N+PE						
Voltage Range for bypass operation			± 10%						
Frequency Range for bypass operation			± 6% (Configurable)						
(Hz) COMMUNICATION									
			DC000 DC/0F (M. ID.	1					
Interface (Communication Ports)		RS232, RS485 (ModBus) Programmable 4 Relay Contacts to any of following signals ;							
Relay Contact Signals (Adjustable)	General Alarm		ailure, Output Failure, Bypas		High Temperature				
Others			EPO, Generator Interfac	e					
ENVIRONMENT									
Storage Temperature Range (°C)		-25 to +55 (1	5 to 40 recomended for longe	er battery life time)					
Operating Temperature Range (°C)		0 to 40 (20	to 25 recomended for longer	battery life time)					
Relative Humidity Range			0-95% (non-condensing]]					
Maximum Altitude without derating			1000						
(m)									
Protection Level	/0		IP20	7					
Audible Noise Level from 1m (dBA)	62		6	<i></i>					
PHYSICAL SPECIFICATIONS									
Output power (kVA)	160	200	250	300	400				
Dimensions WxDxH (mm)	980x870x1950		1340x10						
Weight (kg)	570	830	865	900	1070				
STANDARDS									
Standards		EN 62040-1-1 (S	afety), EN 62040-2 (EMC), EN	l 62040-3 (VFI-SS-111)					















Pyramid DSP Premium T

3 Phase In - 3 Phase Out / 160 - 300kVA

- High Output Power Factor (PF: 0.9)
- Graphical Touch Screen Front Display Panel
- IGBT Rectifier
- Real Digital Signal Processor (DSP) controlled technology with built-in output isolation transformer
- Input Power Factor Correction PFC (PF: >0.99)
- Low Total Harmonic Distortion Level (THDi

 4%)
- High Efficiency (up to 93%)
- Wide Input Voltage Range
- Generator Compatible Operation
- Evolution and redundancy guaranteed by on site Modular Parallel Systems
- Intelligent battery management system extends the lifetime of batteries
- Static and Manual Bypass
- EPO (Emergency Power Off)
- Communication with computers and network systems with SNMP availability
- Expandable battery blocks
- Low installation and operating costs
- Different voltage applications with refer to country mains characteristic













ACCESSORIES

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- UPSMAN (Management Software)
- Multiserver Shutdown Licence
- Internal SNMP kit: Internal Slot Card SNMP CS141BSC or CY504, slot box, cable
- External Adapter SNMP Adapter Net Agent Mini DY 522 SNMP Adapter CS141BL

Other

- Split By-pass
- Parallel Kit

Battery Cabinets

- UPS looking battery Cabinets (different battery configuration available) V14, V15, V24, V33, V34
- Eco Cabinets (different battery configurations available) BC00, BC10, BC20, BC30, BC40, BC50, BC60





Pyramid DSP Premium T

MODEL	PDSP-P T 33160	PDSP-P T 33200	PDSP-P T 33250	PDSP-P T 33300						
Output power (kVA)	160	200	250	300						
Nominal Active Power (kW) INPUT	144	180	225	270						
**** * *		201	N DE							
Number of phases Nominal Voltage (3ph Phase to Phase)			N+PE							
		380V/40	<u> </u>							
Voltage range Voltage range (64% load)		[-15%] [+27%] [-45%] [+27%]								
Voltage range (42% load)		(-44%) (+27%)								
Nominal Frequency (Hz)		50 or 60								
Frequency range for online operation		±10%								
Input Current Harmonics (THDi) (*) (**)			%							
Input Power Factor		>0	99							
OUTPUT										
Power factor		0	9							
Number of phases		3Ph+N+PE								
Voltage (3ph Phase to Phase)		380V/40								
Static Voltage Regulation at 100%										
Linear Load (online&battery mode)			%							
Output Voltage Harmonics (THDv)			ear load)							
Crest factor		3	:1							
Frequency (Hz)		50 c	r 60							
Free Running Frequency (Hz)		± 0.	01%							
Overload		125% for 10 minutes	s, 150% for 1 minute							
Efficiency (**)		up to	93%							
BATTERY										
Туре		Maintenance-free l	_ead Acid Batteries							
Quantity (pcs)		54 (2	2*27)							
Battery Protection	Deep Discha	rge Protection with Auto Cut off	Temperature Voltage Compens	ated Charge						
Battery Test		Standard (Autom								
DISPLAY										
3.5" Graphical Touch Screen	Input & Output Frequency, Vol	tage & Current, Load Power Fa	fier, Bypass, Battery, Inverter an ctor, Load%, Load Active & Appa Temperature, Autonomy Time	rent Power, Bypass Voltage &						
STATIC BYPASS	rrequ	ericy, Battery voltage, Garrent e	remperature, Autonomy Time							
Number of phases		3Ph+	N+PE							
Voltage Range for bypass operation		+ 1	0%							
Frequency Range for bypass operation		± 6% (Cor								
(Hz)		± 070 (COI	ingurable (
COMMUNICATION										
			- (
Interface (Communication Ports)		RS232, RS48								
Interface (Communication Ports) Relay Contact Signals (Adjustable)	General Alarm, Input Fai	Programmable 4 Relay Contac	cts to any of following signals ;	load, High Temperature						
	General Alarm, Input Fai	Programmable 4 Relay Contac lure, Battery Failure, Output Fa		load, High Temperature						
Relay Contact Signals (Adjustable)	General Alarm, Input Fai	Programmable 4 Relay Contac lure, Battery Failure, Output Fa	cts to any of following signals ; ilure, Bypass Acvite, Output Over	load, High Temperature						
Relay Contact Signals (Adjustable) Others	General Alarm, Input Fai	Programmable 4 Relay Conta lure, Battery Failure, Output Fa EPO, Genera	cts to any of following signals ; ilure, Bypass Acvite, Output Over	cload, High Temperature						
Relay Contact Signals (Adjustable) Others ENVIRONMENT	General Alarm, Input Fai	Programmable 4 Relay Conta lure, Battery Failure, Output Fa EPO, Genera -25 to +55 (15 to 40 recomend	cts to any of following signals ; ilure, Bypass Acvite, Output Over tor Interface ed for longer battery life time]	rload, High Temperature						
Relay Contact Signals (Adjustable) Others ENVIRONMENT Storage Temperature Range (°C) Operating Temperature Range (°C)	General Alarm, Input Fai	Programmable 4 Relay Contar lure, Battery Failure, Output Fa EPO, Genera -25 to +55 (15 to 40 recomend 0 to 40 (20 to 25 recomender	ets to any of following signals ; ilure, Bypass Acvite, Output Over tor Interface ed for longer battery life time) d for longer battery life time)	load, High Temperature						
Relay Contact Signals (Adjustable) Others ENVIRONMENT Storage Temperature Range (°C) Operating Temperature Range (°C) Relative Humidity Range	General Alarm, Input Fai	Programmable 4 Relay Contar lure, Battery Failure, Output Fa EPO, Genera -25 to +55 (15 to 40 recomend 0 to 40 (20 to 25 recomended 0 - 95% (non	ets to any of following signals ; ilure, Bypass Acvite, Output Over tor Interface ed for longer battery life time) d for longer battery life time) -condensing)	load, High Temperature						
Relay Contact Signals (Adjustable) Others ENVIRONMENT Storage Temperature Range (°C) Operating Temperature Range (°C) Relative Humidity Range Maximum Altitude without derating (m)	General Alarm, Input Fai	Programmable 4 Relay Contacture, Battery Failure, Output Fa EPO, General -25 to +55 (15 to 40 recomend 0 to 40 (20 to 25 recomended 0 - 95% (non	cts to any of following signals; ilure, Bypass Acvite, Output Over tor Interface ed for longer battery life time) d for longer battery life time) -condensing)	tload, High Temperature						
Relay Contact Signals (Adjustable) Others ENVIRONMENT Storage Temperature Range (°C) Operating Temperature Range (°C) Relative Humidity Range Maximum Altitude without derating (m) Protection Level		Programmable 4 Relay Contacture, Battery Failure, Output Failure, Output Failure, Genera EPO, Genera -25 to +55 (15 to 40 recomend of to 40 (20 to 25 recomended 0 - 95% (non	ets to any of following signals; ilure, Bypass Acvite, Output Over tor Interface ed for longer battery life time) d for longer battery life time) -condensing) 00	cload, High Temperature						
Relay Contact Signals (Adjustable) Others ENVIRONMENT Storage Temperature Range (°C) Operating Temperature Range (°C) Relative Humidity Range Maximum Altitude without derating (m) Protection Level Audible Noise Level from 1m (dBA)	General Alarm, Input Fai	Programmable 4 Relay Contacture, Battery Failure, Output Fa EPO, General -25 to +55 (15 to 40 recomend 0 to 40 (20 to 25 recomended 0 - 95% (non	cts to any of following signals; ilure, Bypass Acvite, Output Over tor Interface ed for longer battery life time) d for longer battery life time) -condensing)	rload, High Temperature						
Relay Contact Signals (Adjustable) Others ENVIRONMENT Storage Temperature Range (°C) Operating Temperature Range (°C) Relative Humidity Range Maximum Altitude without derating (m) Protection Level Audible Noise Level from 1m (dBA) PHYSICAL SPECIFICATIONS	62	Programmable 4 Relay Contar lure, Battery Failure, Output Fa EPO, Genera -25 to +55 (15 to 40 recomend 0 to 40 (20 to 25 recomender 0 - 95% (non 10	ets to any of following signals ; ilure, Bypass Acvite, Output Over itor Interface ed for longer battery life time) d for longer battery life time) -condensing) 00 20							
Relay Contact Signals (Adjustable) Others ENVIRONMENT Storage Temperature Range (°C) Operating Temperature Range (°C) Relative Humidity Range Maximum Altitude without derating (m) Protection Level Audible Noise Level from 1m (dBA) PHYSICAL SPECIFICATIONS Output power (kVA)	62	Programmable 4 Relay Contacture, Battery Failure, Output Fa EPO, General -25 to +55 (15 to 40 recomend 0 to 40 (20 to 25 recomended 0 - 95% (non	cts to any of following signals ; ilure, Bypass Acvite, Output Over tor Interface ed for longer battery life time) d for longer battery life time) -condensing) 00 20 67	rload, High Temperature						
Relay Contact Signals (Adjustable) Others ENVIRONMENT Storage Temperature Range (°C) Operating Temperature Range (°C) Relative Humidity Range Maximum Altitude without derating (m) Protection Level Audible Noise Level from 1m (dBA) PHYSICAL SPECIFICATIONS Output power (kVA) Dimensions WxDxH (mm)	62 160 960x1080x1820	Programmable 4 Relay Contacture, Battery Failure, Output Failure, Output Failure, General EPO, General EPO, General EPO, General O to 40 (20 to 25 recomended 0 - 95% (non 10 IP)	ets to any of following signals; ilure, Bypass Acvite, Output Over tor Interface ed for longer battery life time) d for longer battery life time) -condensing) 00 20 67 250 1620x1080x1950	300						
Relay Contact Signals (Adjustable) Others ENVIRONMENT Storage Temperature Range (°C) Operating Temperature Range (°C) Relative Humidity Range Maximum Altitude without derating (m) Protection Level Audible Noise Level from 1m (dBA) PHYSICAL SPECIFICATIONS Output power (kVA)	62	Programmable 4 Relay Contar lure, Battery Failure, Output Fa EPO, Genera -25 to +55 (15 to 40 recomend 0 to 40 (20 to 25 recomender 0 - 95% (non 10	cts to any of following signals ; ilure, Bypass Acvite, Output Over tor Interface ed for longer battery life time) d for longer battery life time) -condensing) 00 20 67	300						















Pyramid DSP

3 Phase In - 3 Phase Out / 10 - 120kVA

3 Phase In - 1 Phase Out / 10 - 40kVA

- IGBT Rectifier
- Real Digital Signal Processor (DSP) controlled transformerless design
- Input Power Factor Correction PFC (PF: >0.99)
- Low Total Harmonic Distortion Level (THDi < 4%)
- High Efficiency (up to 94%)
- Wide Input Voltage Range
- Generator Compatible Operation
- Evolution and redundancy guaranteed by on site Modular Parallel Systems
- Intelligent battery management system extends the lifetime of batteries
- Static and Manual Bypass
- Optional Galvanic isolation transformer
- Communication with computers and network systems with SNMP availability
- Expandable battery blocks
- Low installation and operating costs
- Different voltage applications with refer to country mains characteristic; PDSP version for 380/400/415V(Ph Ph) applications PDSP-U version for 200/208/220V(Ph_Ph) applications Special voltage applications other than stated values
- EPO (Emergency Power Off)
- * 3 phase in 1 phase out version is available (10 to 40 kVA) (380-400-415V version)
- * 50/60 Hz Frequency Converter version is available











ACCESSORIES

Communication

- Remote Monitoring Panel &25m Cable For Remote Panel
- UPSMAN (Management Software)
- Multiserver Shutdown Licence
- Internal SNMP kit :

Internal Slot Card SNMP CS141BSC or CY504, slot box, cable

External Adapter SNMP Adapter Net Agent Mini DY522 SNMP Adapter CS141BL

SNMP Adapter with Modbus CS141LM

Other

- Split By-pass
- Parallel Kit
- Drawer Type Internal Battery Shelves 10 30kVA
- Special Battery Connection Cable for Drawer Type Shelves

Battery Cabinets

UPS looking battery Cabinets (different battery configuration available)

V14, V15, V24, V33, V34

Eco Cabinets (different battery configurations available)

■ BC00, BC10, BC20, BC30, BC40, BC50, BC60





Pyramid DSP

MODEL (380-400-415V 3ph version)	PDSP 33010	PDSP 33015	PDSP 33020	PDSP 33030	PDSP 33040	PDSP 33060	PDSP 33080	PDSP 33100	PDSP 33120
Output power (kVA)	10	15	20	30	40	60	80	100	120
Nominal Active Power (kW	8	12	16	24	32	48	64	80	96
40DEL	PDSP-U33005	PDSP-U33007	PDSP-U33010	PDSP-U33015	PDSP-U33020	PDSP-U33030	PDSP-U33040	PDSP-	PDSP-U3306
200-208-220V 3Ph version) Output power (kva)	5	7.5	10	15	20	30	40	U33050 50	60
Nominal Active Power (kW)	4	6	8	12	16	24	32	40	48
NPUT	4	0	0	12	10	24	32	40	40
Number of phases					3Ph+N+PE				
Nominal Voltage (Ph-Ph)				380V / 400V / 415V	(PDSP) & 200V / 20	8V / 22NV (PNSP-II)			
oltage range (100% load)				(-15)% (+27)% @P\					
oltage range (64% load)				-	% (+27)%@PYRAMII	-	<u></u>		
/oltage range (42% load)					% (+27)%@PYRAMII				
Nominal Frequency (Hz)					50 or 60				
requency range for					±10%				
online operation									
nput Current THD (*) (**)					≤4%				
nput Power Factor					>0.99				
DUTPUT									
Power factor					0.8				
Number of phases					P & PDSP-U) / 1Ph				
/oltage (3Ph Phase to Phase)) Static Voltage Regulation at %100			380V/400V/	415V (PDSP) & 200\	7 / 208V / 220V (PDS	P-UJ / 220 / 230 /24	UV [1 ph ver.]		
Linear Load (online&battery mode)					<1%				
oltage THD at rated linear load					<3%				
Crest Factor					3:1				
requency (Hz)					50 or 60				
Free Running Frequency (Hz)					± 0.01%				
Overload				125% for	10 minutes, 150% fo	r 1 minute			
Efficiency (**)					up to 94%				
BATTERY									
ype				Mainten	ance-free lead acid	batteries			
Quantity (pcs) PDSP version					62 (2*31)				
Quantity (pcs) PDSP-U version					34 (2*17)				
Battery Protection					arge Protection with				
Battery Test				Standa	rd (Automatic and I	Manual)			
DISPLAY									
_ED Display					ttery, Inverter, Load				
_CD Display		Load%, Inp	out & Output Freque	ency, Voltage & Curi	ent, Bypass voltage	e, Battery Voltage &	Current, Temperatu	ıre, Alarms	
STATIC BYPASS									
Number of phases					3Ph+N+PE				
/oltage Range for bypass operation					± 10%				
Frequency Range or bypass operation (Hz)"		± 6% (Configurable)							
COMMUNICATION									
nterface (Communication Ports)		RS232 or RS485 & Modbus (optional)							
Ory Contact Signals (optional)		AC failure, Battery under voltage, bypass operation, output failure							
Others				EF	O, Generator interf	ace			
ENVIRONMENT									
Storage Temperature Range (°C)				-25 to +55 (15 to 40	recomended for lon	ger battery life time	el		
perating Temperature Range (°C)				0 to 40 (20 to 25 re	comended for long	er battery life time)			
Relative Humidity Range				0 -	95% (non-condens	ing)			
Maximum Altitude					1000				
vithout derating (m) Protection Level					IP20				
rotection Eevet	PDSP	PDSP	PDSP	PDSP	PDSP	PDSP	PDSP	PDSP	PDSP
PHYSICAL SPECIFICATIONS	33010	33015	33020	33030	33040	33060	33080	33100	33120
Dimensions wxdxh (mm)	U33005	U33007	U33010 80 x 1070	U33015	U33020	U33030 10 x 1300	U33040 670x730	U33050	U33060 850x780x18
Veight (kg)	100	114	116	122	180	202	253	285	405
TANDARDS	100	114	110	122	100	202	233	203	403
itandards			EN	62040-1-1 (safety),	EN 420/0-2(EMC) E	N 620/0-3 (VEL CC	-111)		
carradi do		aries depending on		02040 I I (30ICty),	020+0 Z(LIMO), E	020-0 0 (VI I-33)			















Pyramid DSP T

3 Phase In - 3 Phase Out / 10 - 120kVA

- IGBT Rectifier
- Real Digital Signal Processor (DSP) controlled
- Built in Inverter Output Isolation Transformer
- Input Power Factor Correction PFC (PF: >0.99)
- Low Total Harmonic Distortion Level (THDi < 4%) and (THDv < 1.5%)
- Wide Input Voltage Range
- Generator Compatible Operation
- Evolution and redundancy guaranteed by on site Modular Parallel Systems
- Intelligent battery management system extends the lifetime of batteries
- Synchronization Capability with external sources
- Static and Manual Bypass
- Communication with computers and network systems with SNMP availability
- Expandable battery blocks
- Low installation and operating costs
- EPO (Emergency Power Off)











ACCESSORIES

Communication

- Remote Monitoring Panel &25m Cable For Remote Panel
- UPSMAN (Management Software)
- Multiserver Shutdown Licence
- Internal SNMP kit :
 - Internal Slot Card SNMP CS141BSC or CY504, slot box, cable
- External Adapter
 - SNMP Adapter Net Agent Mini DY 522
 - SNMP Adapter CS141BL
 - SNMP Adapter with Modbus CS141LM

Other

- Split By-pass
- Parallel Kit

Battery Cabinets

UPS looking battery Cabinets (different battery configuration available)

■ V14, V15, V24, V33, V34

Eco Cabinets (different battery configurations available)

■ BC00, BC10, BC20, BC30, BC40, BC50, BC60





Pyramid DSP T

MODEL	PDSP-T 33010	PDSP-T 33015	PDSP-T 33020	PDSP-T 33030	PDSP-T 33040	PDSP-T 33060	PDSP-T 33080	PDSP-T 33100	PDSP-T 33120
Output Power (kVA)	10	15	20	30	40	60	80	100	120
Active Power (kW)	8	12	16	24	32	48	64	80	96
INPUT									
Number of Phases					3Ph + N + PE				
Nominal Voltage (Ph-Ph)					380V/400V/415	5V			
Voltage range (100% load)		[-15%] (+27%)							
Voltage range (64% load)		[-45%] (+27%)							
Voltage range (42% load)					(-64%) (+27%	n]			
Nominal Frequency (Hz)					50 or 60 (±10%	······································			
Input Current Harmonics (THDi) (*) (**)					≤ 4%				
Input Power Factor		>0.99							
DUTPUT									
Output Power factor					0.8				
Number of Phases					3Ph + N + PE				
Voltage					380V/400V/415	5V			
Static Voltage Regulation at 100% Linear Load (online&battery mode)					<1%				
Output Voltage Harmonics (THDv)				< '	I.5% (linear lo	ad)			
Crest factor					3:1				
Free Running Frequency (Hz)				5	0 or 60 (± 0.01	%)			
Overload				125% for 10	minutes; 150%	6 for 1 minute			
Efficiency (**)					≥ 90%				
STATIC BYPASS									
Voltage Range				380V ,	/ 400V (Ph-Ph) ± 10%			
Frequency Range for bypass operation (Hz)				±	:6% (Adjustabl	le)			
BATTERY									
Гуре				Maintenan	ce-free lead a	cid batteries			
Battery Quantity (pcs)					54 (2 x 27)				
Battery Protection			[Deep discharg	e Protection v	vith Auto Cut o	ff		
Battery Test				Standard	(Automatic ar	nd Manual)			
COMMUNICATION									
Interface (Communication Ports)				RS232	2&485@ 10 to	120kVA			
Dry Contact Signals (optional)			AC Failure. E				Output Failure		
Others	AC Failure, Battery Under Voltage, Bypass Operation, Output Failure EPO, Generator Interface								
ENVIRONMENT									
Storage Temperature Range (°C)			-25 to -	+55 (15 to 40 r	ecommended	for longer bat	terv life)		
Operating Temperature Range (°C)						or longer batte			
Relative Humidity Range					% (non-conde		, ,		
Maximum Altitude without derating (m)					< 1000				
Protection Class					IP20				
PHYSICAL SPECIFICATIONS	PDSP-T	PDSP-T	PDSP-T	PDSP-T	PDSP-T	PDSP-T	PDSP-T	PDSP-T	PDSP-
Dimensions (WxDxH) (mm)	33010	33015 400 x 78	33020 80 x 1070	33030	33040 520 x 90	33060 00 x 1300	33080 640x10	33100 00x1400	33120 760 x 125 1685
Weight (kg)	20	35	238	273	450	502	625	680	790
STANDARDS									
			EN 62040-1	-1 (safety), EN	62040-2(EMC	c), EN 62040-3	(VFI-SS-111)		
			g on ups powe						











Solutio

3 Phase In - 3 Phase Out / 300kVA - 400kVA

- Interleaved 3 Level IGBT Technology
- Real Digital Signal Processor (DSP) controlled transformerless design
- High output power factor (PF:1, kVA=kW)
- Increased AC-AC Efficiency (up to 96.5%)
- High input power factor (PF: > 0.99)
- Low input current (THDi <3%)
- Low output voltage (THDv <2%)
- Wide input voltage range
- Graphical Multi-Functional touch screen display (7" TFT)
- Built-in static & manual Bypass
- On-site parallel connection availability up to 6 units
- Intelligent battery management system & expandable battery autonomy time
- Event log display up to 1024 events
- Advanced communication features; RS232, RS485, ESD (EPO, NO or NC selectable),
 Genset and USB ports as standard. Modbus & SNMP as optional
- Generator compatible operation mode (Selectable from HMI)
- 50/60Hz Frequency converter operation mode (Selectable from HMI)
- Backfeed protection (Optional)
- Cold start (Optional)
- User friendly input & output connection terminals
- High reliability & performance, thanks to artificial intelligence algorithms

















Other Features

- Dual Input (Split Bypass) (Optional)
- Temperature controlled battery charging
- Selectable output voltage (220/380V, 230/400V or 240/415V) from HMI
- Selectable output frequency (50/60 Hz) from HMI
- Programmable dry contact board (Optional)
- Easy service with modular architecture
- Temperature controlled fan speed
- Special voltage application & galvanic isolation options
- Ability to operate without batteries
- Frequency converter (50/60 Hz) option
- Availability to disable bypass and inverter from HMI
- Availability to run battery test from HMI or SNMP
- Compatibility with dynamic loads
- Low audible noise, thanks to interleaved
 3 Level IGBT Topology
- Advanced on-system diagnosis
- Bypass line temperature protection with temperature control on Bypass thyristor
- High Reliability, Rigid structure
- Advanced statistical data recording





Solutio

MODEL	SOLUTIO 300	SOLUTIO 400
Power (kVA)	300	400
Active Power (kW)	300	400
INPUT	300	400
Phase	2	BPh+N+PE
Nominal Voltage		7 / 400V / 415V
Voltage Range (VAC) (100% Load)		5%] (+20%)
Voltage Range (VAC) (100% Load)	<u> </u>	(5%) (+20%)
	<u></u>	
Nominal Frequency		50 / 60 Hz 45 - 65 Hz
Frequency Range (Online Mode) Input Current Harmonics (THDi)*		<3%
1		<0.7%>0.99
Input Power Factor OUTPUT		≥ U.77
		DI NI DE
Phase		Ph+N+PE
Nominal Voltage	380V / 400V / 413	5V (Selectable from HMI)
Output Power Factor		1.0
Static Voltage Regulation @ 100% Linear Load	00/ (1)	±1%
Output Voltage Harmonics (THDv)*	< 2% (Linear Load	d), < 4% (Non-Linear Load)
Crest Factor	polici: to	3:1
Frequency		selectable from HMI)
Frequency Range (Battery Operation Mode)		0 Hz ±0.01%
Overload	*	nins, <150% Load 1 min; Bypass Mode: Up to 175%
Efficiency*	up to 96.5% (On	nline), >98.5% (Ecomode)
STATIC BYPASS LINE		
Phase		BPh+N+PE
Bypass Voltage Range		5% +10% selectable from HMI)
Bypass Frequency Range	± 3 Hz (Se	lectable from HMI)
Transfer Time		0 msec
BATTERY		
Battery Type		Free Lead Acid Batteries
Charge Current (A)**	C/10 (Sel	lectable from HMI)
Battery Qty (pcs)		60
Battery Protection	· · · · · · · · · · · · · · · · · · ·	perature-compensated Battery Charging
Battery Test	Standard (A	Automatic & Manual)
FRONT PANEL DISPLAY (HMI)		
Display Display Measurements	Load Percent, Input/Output/Bypass Voltage, I Output Power (kW & kVA), Output Power Facto	phical Touch Screen Display nput/Output Current, Input/Output/Bypass Frequency, or, Battery ± Voltage, DC Bus ± Voltage, Back-up Time, re, Charge-Discharge Current
Event Log Quantity		1024
COMMUNICATION		
Interface (Communication Port)	RS232, RS485, ESD (EPO, NO or NC selectable), Gen	set and USB ports as standard. Modbus & SNMP as optional
Dry Contact Signals PROTECTION	4pcs Programma	ble dry contacts (Optional)
		igh Voltage & High Current Protections, Discharge Protection, Short Circuit Protection
ENVIRONMENT		
ENVIRONMENT Operating Temperature	0 - 40 °C (20 - 25°C recon	nended for longer battery life time)
		mended for longer battery life time) 25 ~ +55 °C
Operating Temperature		· · · · · · · · · · · · · · · · · · ·
Operating Temperature Storage Temperature	-2	25 ~ +55 °C
Operating Temperature Storage Temperature Max. Operating Altitude	-2 0 - 95% (25 ~ +55 °C 1000m
Operating Temperature Storage Temperature Max. Operating Altitude Relative Humidity	-2 0 - 95% (25 ~ +55 °C 1000m non-condensing)
Operating Temperature Storage Temperature Max. Operating Altitude Relative Humidity Audible Noise Level (from 1m distance)	-2 0 - 95% (25 ~ +55 °C 1000m non-condensing)
Operating Temperature Storage Temperature Max. Operating Altitude Relative Humidity Audible Noise Level (from 1m distance) PHYSICAL SPECIFICATIONS	-2 0 - 95% (25 ~ +55 °C 1000m non-condensing) < 70 dBA
Operating Temperature Storage Temperature Max. Operating Altitude Relative Humidity Audible Noise Level (from 1m distance) PHYSICAL SPECIFICATIONS Dimension (WxDxH) (mm)	-2 0 - 95% (1660	25 ~ +55 °C 1000m non-condensing) < 70 dBA
Operating Temperature Storage Temperature Max. Operating Altitude Relative Humidity Audible Noise Level (from 1m distance) PHYSICAL SPECIFICATIONS Dimension (WxDxH) (mm) Weight (kg) (W/O Battery) STANDARDS	-2 0 - 95% (1660 715	25 ~ +55 °C 1000m non-condensing) < 70 dBA
Operating Temperature Storage Temperature Max. Operating Altitude Relative Humidity Audible Noise Level (from 1m distance) PHYSICAL SPECIFICATIONS Dimension (WxDxH) (mm) Weight (kg) (W/O Battery)	-2 0 - 95% (1660 715 IEC/EN	25 ~ +55 °C 1000m non-condensing) < 70 dBA 0 x 750 x 1910 825
Operating Temperature Storage Temperature Max. Operating Altitude Relative Humidity Audible Noise Level (from 1m distance) PHYSICAL SPECIFICATIONS Dimension (WxDxH) (mm) Weight (kg) (W/O Battery) STANDARDS Safety	-2 0 - 95% (1660 715 IEC/EN IEC/EN	25 ~ +55 °C 1000m non-condensing) < 70 dBA 0 x 750 x 1910 825

^{*}May vary depending on UPS power & Load & Environmental Conditions
**It is limited by 10% of UPS power
***INFORM keeps the right to change the specifications without any notice













Modulera

Modular UPS 3 Phase In - 3 Phase Out / 20 - 200 kVA

- Hot Swappable Decentralized Parallel Architecture
- DSP (Digital Signal Processor) Controlled Technology
- Modular N+X Parallel Redundancy
- Plug & Play Type Hot Swappable Power Modules
- Cold Start Function
- Parallel connection availability of UPS Frames up to 4pcs
- Wide Input Voltage Window (208Vac ~ 478Vac)
- Wide input frequency range (40Hz 70Hz)
- High Overall Efficiency (up to 94%)
- Increased Output Power Factor (PF: 0.9)
- Unity Input Power Factor (PF: > 0.99)
- Low Input Total Harmonic Distortion Level (THDi down to 3 %)
- Fit into standard 19" Rack Cabinet
- Touch-screen LCD display for user's friendly operation
- EPO (Emergency Power Off)
- Smart Fan Speed Control
- Programmable Battery Voltage (32/34/36/38/40 blocks of 12V Batteries)
- Three Level Battery Charge system with smart charge current adjustment
- Powerful charger built in each Modular UPS Power Module
- Equip with Maintenance Bypass Switch for easy maintenance
- RS232 & 485 Ports as standard communication
- Megatec/Mod Bus protocol supported
- Optional Communication Interfaces (SNMP Card or DRY contact board)

















Modulera

		MDL 3300-60K	MDL 3300-100K	MDL 3300-200K					
Frame Capacity		20kVA (18kW) to 60kVA (54kW)	20kVA (18kW) to 100kVA (90kW)	20kVA (18kW) to 200kVA (180kW)					
MDL Module Capac	city		20KVA/18KW						
INPUT									
Phase			3Ph+N+PE						
Rated Voltage			380 / 400 / 415Vac						
Voltage Range		208 - 4	78Vac at 50% load, 305 - 478Vac at 100% l	oad					
Frequency range			40Hz - 70Hz						
Power Factor			≥ 0.99						
Current THDi			down to 3%						
			Present						
Generator Input			Fresent						
OUTPUT			ODL N. DE						
Phase			3Ph+N+PE						
Rated Voltage			380/400/415Vac						
Power Factor			0.9						
oltage Regulation			±1%						
- requency	Utility Mode	±1%, ±2%,	$\pm 4\%$, $\pm 5\%$, $\pm 10\%$ of the rated frequency(o)	ptional)					
requericy	Battery Mode		$(50/60 \pm \%0.2)$ Hz						
Crest Factor			3:1						
ΓHDv			≤2% with linear load						
Waveform			Pure Sinewave						
	AC Mode		%: 60min,110% - 125%: 10min, 125% - 150	%: 1min,					
	AC Mode		≥150%: immediately transfers to bypass						
Over Load	Bat. Mode	100% - 1109	%: 60min,110% - 125%: 10min, 125% - 150	%: 1min,					
	Bypass Mode		≥150%: immediately shutdown Breaker (40Amp)						
VC VC Ett:-:	Dypass Mode								
AC-AC Efficiency			Up to 94%						
Eco-Mode Efficienc	СУ		97%						
BATTERY									
Гуре			Maintenance-free lead acid batteries						
Quantity (12V VRLA		Cor	nfigurable to 32/34/36/38/40 pcs per string	ing					
/oltage (12V VRLA I	batteries)		384/408/432V/456V/480V DC						
			60A Max. (charge current can be set according to battery capacity installed)						
Charging Current	Frame	18A Max. (charge current can be set according to battery capacity installed)	30A Max. (charge current can be set according to battery capacity installed)	set according to battery capacity installed)					
Charging Current	Frame MDL Module	according to battery capacity installed)		installed)					
		according to battery capacity installed)	according to battery capacity installed)	installed)					
DISPLAY		according to battery capacity installed) 6A Max. (charge of	according to battery capacity installed)	installed) oacity installed)					
DISPLAY Status LED & LCD	MDL Module	according to battery capacity installed) 6A Max. (charge of the battery capacity installed) Line Mode, Eco Mode, I	according to battery capacity installed)	installed) pacity installed) verload & UPS Fault					
DISPLAY Status LED & LCD Reading On the LCI	MDL Module	according to battery capacity installed) 6A Max. (charge of the battery capacity installed) Line Mode, Eco Mode, I	according to battery capacity installed) current can be set according to battery cap Bypass Mode, Battery Low, Battery Bad, O	installed) pacity installed) verload & UPS Fault					
DISPLAY Status LED & LCD Reading On the LCI PROTECTION	MDL Module	according to battery capacity installed) 6A Max. (charge of the battery capacity installed) Line Mode, Eco Mode, I	according to battery capacity installed) current can be set according to battery cap Bypass Mode, Battery Low, Battery Bad, O /oltage, Output Frequency, Load Percentag ture	installed) pacity installed) verload & UPS Fault					
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DISPLAY Status LED & LCD Reading On the LCI PROTECTION Short Circuit	MDL Module	according to battery capacity installed) 6A Max. (charge of the Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mode, Eco Mo	according to battery capacity installed) current can be set according to battery cap Bypass Mode, Battery Low, Battery Bad, O' foltage, Output Frequency, Load Percentag ture Hold Whole System h to Bypass; Backup Mode: Shut down UP	installed) pacity installed) verload & UPS Fault ge, Battery Voltage & Inner Tempera					
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DISPLAY Status LED & LCD Reading On the LCI PROTECTION Short Circuit Overheat Battery Low Self-diagnostics EPO (optional) Battery Noise Suppression	MDL Module	according to battery capacity installed) 6A Max. (charge of the Mode, Eco Mode, I line Mode, Eco Mode, I line Mode, I line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch L	according to battery capacity installed) current can be set according to battery cap Bypass Mode, Battery Low, Battery Bad, O foltage, Output Frequency, Load Percentage ture Hold Whole System h to Bypass; Backup Mode: Shut down UP Alarm and Switch off Upon Power On and Software Control Shut down UPS immediately Advanced Battery Management Complies with EN62040-2	installed) pacity installed) verload & UPS Fault ge, Battery Voltage & Inner Tempera					
DISPLAY Status LED & LCD Reading On the LCI PROTECTION Short Circuit Overheat Battery Low Self-diagnostics EPO (optional) Battery Noise Suppression Alarms	MDL Module	according to battery capacity installed) 6A Max. (charge of the Mode, Eco Mode, I line Mode, Eco Mode, I line Mode, I line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch Line Mode: Switch L	according to battery capacity installed) current can be set according to battery cap Bypass Mode, Battery Low, Battery Bad, O foltage, Output Frequency, Load Percentage ture Hold Whole System h to Bypass; Backup Mode: Shut down UP Alarm and Switch off Upon Power On and Software Control Shut down UPS immediately Advanced Battery Management	installed) pacity installed) verload & UPS Fault ge, Battery Voltage & Inner Tempera					
DISPLAY Status LED & LCD Reading On the LCI PROTECTION Short Circuit Overheat Battery Low Self-diagnostics EPO (optional) Battery Noise Suppression Alarms COMMUNICATION	MDL Module	according to battery capacity installed) 6A Max. (charge of Line Mode, Eco Mode, I Input Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage,	according to battery capacity installed) current can be set according to battery cap Bypass Mode, Battery Low, Battery Bad, O' foltage, Output Frequency, Load Percentage ture Hold Whole System h to Bypass; Backup Mode: Shut down UP Alarm and Switch off Upon Power On and Software Control Shut down UPS immediately Advanced Battery Management Complies with EN62040-2 Failure, Battery Low, Overload, System Fail	installed) pacity installed) verload & UPS Fault ge, Battery Voltage & Inner Tempera S immediately					
DISPLAY Status LED & LCD Reading On the LCD PROTECTION Short Circuit Dverheat Battery Low Self-diagnostics EPO (optional) Battery Noise Suppression Alarms COMMUNICATION Standard	MDL Module	according to battery capacity installed) 6A Max. (charge of Line Mode, Eco Mode, Input Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, In	according to battery capacity installed) current can be set according to battery cap Bypass Mode, Battery Low, Battery Bad, O' foltage, Output Frequency, Load Percentage ture Hold Whole System h to Bypass; Backup Mode: Shut down UP Alarm and Switch off Upon Power On and Software Control Shut down UPS immediately Advanced Battery Management Complies with EN62040-2 Failure, Battery Low, Overload, System Fail	installed) pacity installed) verload & UPS Fault ge, Battery Voltage & Inner Tempera S immediately ult s port, 2xCommunication Slot					
DISPLAY Status LED & LCD Reading On the LCD PROTECTION Short Circuit Dverheat Battery Low Self-diagnostics EPO (optional) Battery Noise Suppression Alarms COMMUNICATION Standard Optional	MDL Module	according to battery capacity installed) 6A Max. (charge of Line Mode, Eco Mode, Input Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, In	according to battery capacity installed) current can be set according to battery cap Bypass Mode, Battery Low, Battery Bad, O' foltage, Output Frequency, Load Percentage ture Hold Whole System h to Bypass; Backup Mode: Shut down UP Alarm and Switch off Upon Power On and Software Control Shut down UPS immediately Advanced Battery Management Complies with EN62040-2 Failure, Battery Low, Overload, System Fail	installed) pacity installed) verload & UPS Fault ge, Battery Voltage & Inner Tempera S immediately ult s port, 2xCommunication Slot					
DISPLAY Status LED & LCD Reading On the LCD PROTECTION Short Circuit Dverheat Battery Low Self-diagnostics EPO (optional) Battery Noise Suppression Alarms COMMUNICATION Standard Optional ENVIRONMENT	MDL Module	according to battery capacity installed) 6A Max. (charge of Line Mode, Eco Mode, Input Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, In	according to battery capacity installed) current can be set according to battery cap Bypass Mode, Battery Low, Battery Bad, O foltage, Output Frequency, Load Percentage ture Hold Whole System h to Bypass; Backup Mode: Shut down UP Alarm and Switch off Upon Power On and Software Control Shut down UPS immediately Advanced Battery Management Complies with EN62040-2 Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, Battery Low, Overload, Battery Low, Overload, Battery Low, Overload, Battery Low, Overload, Battery Low, Overload, Battery Low, Overload, Battery Low, Overload, Battery Low, Overload, Battery Low, Overload, Battery Low, Overload, Battery Low, Overload, Battery Low, Overload, Battery Low, Overload, Battery Low, Overload, Battery Low, Overload, Battery Low, Overload, Battery Low, Overload, Battery	installed) pacity installed) verload & UPS Fault ge, Battery Voltage & Inner Tempera S immediately ult s port, 2xCommunication Slot					
DISPLAY Status LED & LCD Reading On the LCD PROTECTION Short Circuit Dverheat Battery Low Self-diagnostics EPO (optional) Battery Noise Suppression Alarms COMMUNICATION Standard Optional Departing Tempera	MDL Module D	according to battery capacity installed) 6A Max. (charge of Line Mode, Eco Mode, Input Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, In	according to battery capacity installed) current can be set according to battery cap Bypass Mode, Battery Low, Battery Bad, O foltage, Output Frequency, Load Percentag ture Hold Whole System h to Bypass; Backup Mode: Shut down UP Alarm and Switch off Upon Power On and Software Control Shut down UPS immediately Advanced Battery Management Complies with EN62040-2 Failure, Battery Low, Overload, System Fail 2xRS485 Communication ports, 1xModBus 6 (Megatec Protocol), Dry Contact Board, E	installed) pacity installed) verload & UPS Fault ge, Battery Voltage & Inner Tempera S immediately ult s port, 2xCommunication Slot					
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DISPLAY Status LED & LCD Reading On the LCD PROTECTION Short Circuit Dverheat Battery Low Self-diagnostics EPO (optional) Battery Noise Suppression Alarms COMMUNICATION Standard Dptional ENVIRONMENT Deperating Temperate Storage Temperate Humidity	MDL Module D	according to battery capacity installed) 6A Max. (charge of Line Mode, Eco Mode, Input Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, In	according to battery capacity installed) current can be set according to battery cap Bypass Mode, Battery Low, Battery Bad, O foltage, Output Frequency, Load Percentag ture Hold Whole System h to Bypass; Backup Mode: Shut down UP Alarm and Switch off Upon Power On and Software Control Shut down UPS immediately Advanced Battery Management Complies with EN62040-2 Failure, Battery Low, Overload, System Fail 2xRS485 Communication ports, 1xModBus Megatec Protocol), Dry Contact Board, E 0°C - 40°C -25°C - 55°C 0 - 95% non condensing	installed) pacity installed) verload & UPS Fault ge, Battery Voltage & Inner Tempera S immediately ult s port, 2xCommunication Slot					
DISPLAY Status LED & LCD Reading On the LCD PROTECTION Short Circuit Dverheat Battery Low Self-diagnostics EPO (optional) Battery Noise Suppression Alarms COMMUNICATION Standard Dptional ENVIRONMENT Deperating Temperate Storage Temperate Humidity	MDL Module D	according to battery capacity installed) 6A Max. (charge of Line Mode, Eco Mode, Input Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, In	according to battery capacity installed) current can be set according to battery cap Bypass Mode, Battery Low, Battery Bad, O foltage, Output Frequency, Load Percentag ture Hold Whole System h to Bypass; Backup Mode: Shut down UP Alarm and Switch off Upon Power On and Software Control Shut down UPS immediately Advanced Battery Management Complies with EN62040-2 Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Fail	installed) pacity installed) verload & UPS Fault ge, Battery Voltage & Inner Tempera S immediately ult s port, 2xCommunication Slot					
DISPLAY Status LED & LCD Reading On the LCD PROTECTION Short Circuit Diverheat Battery Low Self-diagnostics EPO (optional) Battery Noise Suppression Alarms COMMUNICATION Standard Diptional ENVIRONMENT Diperating Temperate Humidity Altitude	MDL Module D	according to battery capacity installed) 6A Max. (charge of Line Mode, Eco Mode, Input Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, In	according to battery capacity installed) current can be set according to battery cap Bypass Mode, Battery Low, Battery Bad, O foltage, Output Frequency, Load Percentag ture Hold Whole System h to Bypass; Backup Mode: Shut down UP Alarm and Switch off Upon Power On and Software Control Shut down UPS immediately Advanced Battery Management Complies with EN62040-2 Failure, Battery Low, Overload, System Fail 2xRS485 Communication ports, 1xModBus Megatec Protocol), Dry Contact Board, E 0°C - 40°C -25°C - 55°C 0 - 95% non condensing	installed) pacity installed) verload & UPS Fault ge, Battery Voltage & Inner Tempera S immediately ult s port, 2xCommunication Slot					
DISPLAY Status LED & LCD Reading On the LCD PROTECTION Short Circuit Overheat Battery Low Self-diagnostics EPO (optional) Battery Noise Suppression Alarms COMMUNICATION Standard Optional ENVIRONMENT Operating Temperate Humidity Altitude Noise	MDL Module D ature IIre	according to battery capacity installed) 6A Max. (charge of Line Mode, Eco Mode, Input Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, In	according to battery capacity installed) current can be set according to battery cap Bypass Mode, Battery Low, Battery Bad, O foltage, Output Frequency, Load Percentage ture Hold Whole System h to Bypass; Backup Mode: Shut down UP Alarm and Switch off Upon Power On and Software Control Shut down UPS immediately Advanced Battery Management Complies with EN62040-2 Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Fai	installed) pacity installed) verload & UPS Fault ge, Battery Voltage & Inner Tempera S immediately ult s port, 2xCommunication Slot					
DISPLAY Status LED & LCD Reading On the LCD PROTECTION Short Circuit Overheat Battery Low Self-diagnostics EPO (optional) Battery Noise Suppression Alarms COMMUNICATION Standard Optional ENVIRONMENT Operating Temperat Storage Temperature Humidity Altitude Noise PHYSICAL SPECIF	MDL Module D ature IIre	according to battery capacity installed) 6A Max. (charge of Line Mode, Eco Mode, Input Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, In	according to battery capacity installed) current can be set according to battery cap Bypass Mode, Battery Low, Battery Bad, O foltage, Output Frequency, Load Percentage ture Hold Whole System h to Bypass; Backup Mode: Shut down UP Alarm and Switch off Upon Power On and Software Control Shut down UPS immediately Advanced Battery Management Complies with EN62040-2 Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Fai	installed) pacity installed) verload & UPS Fault ge, Battery Voltage & Inner Tempera S immediately ult s port, 2xCommunication Slot					
DISPLAY Status LED & LCD Reading On the LCD PROTECTION Short Circuit Diverheat Battery Low Self-diagnostics EPO (optional) Battery Noise Suppression Alarms COMMUNICATION Standard Diptional ENVIRONMENT Diperating Temperate Humidity Altitude Noise PHYSICAL SPECIF Dimensions	MDL Module D sture ire	according to battery capacity installed) 6A Max. (charge of Line Mode, Eco Mode, I Input Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Samuel Line Mode: Switch Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel	according to battery capacity installed) current can be set according to battery cap Bypass Mode, Battery Low, Battery Bad, O foltage, Output Frequency, Load Percentage ture Hold Whole System h to Bypass; Backup Mode: Shut down UP Alarm and Switch off Upon Power On and Software Control Shut down UPS immediately Advanced Battery Management Complies with EN62040-2 Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Fai	installed) pacity installed) verload & UPS Fault ge, Battery Voltage & Inner Tempera S immediately ult s port, 2xCommunication Slot					
DISPLAY Status LED & LCD Reading On the LCI PROTECTION Short Circuit Overheat Battery Low Self-diagnostics EPO (optional) Battery Noise Suppression Alarms COMMUNICATION Standard Optional ENVIRONMENT Operating Temperatu Humidity Altitude Noise PHYSICAL SPECIF Dimensions (WXDXH)	MDL Module D Sture Ire MDL Module Frame	according to battery capacity installed) 6A Max. (charge of Line Mode, Eco Mode, I Input Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Samuel Line Mode: Switch Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel	according to battery capacity installed) current can be set according to battery cap Bypass Mode, Battery Low, Battery Bad, O foltage, Output Frequency, Load Percentage ture Hold Whole System h to Bypass; Backup Mode: Shut down UP Alarm and Switch off Upon Power On and Software Control Shut down UPS immediately Advanced Battery Management Complies with EN62040-2 Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Fai	installed) pacity installed) verload & UPS Fault ge, Battery Voltage & Inner Tempera S immediately ult port, 2xCommunication Slot PO					
DISPLAY Status LED & LCD Reading On the LCI PROTECTION Short Circuit Overheat Battery Low Self-diagnostics EPO (optional) Battery Noise Suppression Alarms COMMUNICATION Standard Optional ENVIRONMENT Operating Temperat Storage Temperatu Humidity Altitude Noise PHYSICAL SPECIF Dimensions	MDL Module D sture Ire MDL Module	according to battery capacity installed) 6A Max. (charge of Line Mode, Eco Mode, I Input Voltage, Input Frequency, Output Voltage, Input Frequency, Output Voltage, Input Samuel Line Mode: Switch Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel Line Mode: Switch Samuel	according to battery capacity installed) current can be set according to battery cap Bypass Mode, Battery Low, Battery Bad, O foltage, Output Frequency, Load Percentage ture Hold Whole System h to Bypass; Backup Mode: Shut down UP Alarm and Switch off Upon Power On and Software Control Shut down UPS immediately Advanced Battery Management Complies with EN62040-2 Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Failure, Battery Low, Overload, System Fai	installed) pacity installed) verload & UPS Fault ge, Battery Voltage & Inner Tempera S immediately ult port, 2xCommunication Slot PO					















Modulera

Modular UPS 3 Phase In - 3 Phase Out / 30 - 800 kVA

- True Online Double Conversion Technology with 3-Level Inverter Topology
- Hot Swappable Decentralized Parallel Architecture
- DSP (Digital Signal Processor) Controlled Technology
- Modular N+X Parallel Redundancy
- Plug & Play Type Hot Swappable easy replaceable Power Modules
- Independent control of each individual power module
- Common Battery use between parallel Frames
- Parallel connection availability of UPS Frames up to 4pcs
- Wide Input Voltage Window (305Vac ~ 485Vac)
- Wide input frequency range (40Hz 70Hz)
- Transformerless Design with High Overall Efficiency
- Increased Output Power Factor (PF: 1.0)
- Unity Input Power Factor (PF: >0.99)
- Low Input Total Harmonic Distortion Level (THDi down to 3%)
- Increased Output Energy Quality with low harmonics (THDv <2%)
- Touch-screen LCD display for user's friendly operation
- EPO (Emergency Power Off)
- Programmable Battery Voltage (32/34/36/38/40 blocks of 12V
- Three Level Battery Charge system with smart charge current adjustment
- Powerful charger built in each Modular UPS Power Module
- RS232 & 485 Ports as standard communication
- Megatec/Mod Bus protocol supported
- Optional Communication Interfaces (SNMP Card or DRY contact
- Small footprint up to 800kVA built-in one 19" Frame















Modulera TECHNICAL SPECIFICATIONS



		POWER MODULE SPECIFICATIONS							
MDL Module Capa	city (KVA/KW)	30kVA - 30kW	50kVA - 50kW						
MDL Module Dime	ension (WxDxH)	442x620x86x[2U]	442x620x130x(3U)						
Veight (kg)		32							
NPUT									
Phase		3Ph+N+P	Ε						
Nominal Voltage		380/400/415	Vac						
Operating Voltage	Range	305~485Va	C						
Operating Frequen	cy Range	40Hz-70H	Z						
Power Factor		≥0.99							
Harmonic Distortio	on (THDi)	3% (100% non-lin	ear load)						
Bypass Voltage Ra	nge	Maximum Voltage: 220V: +25% (adjustable to +10%, +15% 240V:+15% (adjustable to +10%) Minimum Voltag							
Bypass Frequency	Range	±10%							
Generator Input	-	Support							
OUTPUT									
Phase		3Ph+N+P	E						
Nominal Voltage		380/400/415Vac (adjustable	e from front panel)						
Power Factor		1							
Voltage Regulation	1	±1%							
requency		50/60Hz (adjustable from front panel)							
Output Frequency	Utility Mode	±1% ±2% ±4% ±5% ±10% of the ra	ted frequency (adjustable)						
Julpul Frequency	Battery Mode	(50/60±0.1%]Hz						
Crest Factor		3:1							
Harmonic Distortio	on (THDv)	≤1% Linear Load, ≤4% Non-linear Load							
Output Waveform		Pure Sinew	ave						
Efficiency		>95	96.5%						
BATTERY									
Battery Voltage		±180V/±192V\±204V\±216V\±228V\±240V\±2 (30/32/34/36/38/40/42/44/46/48/50 pc							
Charge	UPS Cabinet	Charge current can be set according	to battery capacity installed						
Current (A)	MDL Module	10A Max.	20A Max.						
Transfer Time		Utility to Battery : 0ms; Util	ity to by-pass: 0ms						
PROTECTION									
Overload		Load 110 % last 60min; Load 125 % las	t 10min; Load 150 % last 1min						
Short Circuit		Hold Whole Sy							
Overheat		Line Mode: Switch to By-pass, Backup M							
_ow Battery Voltag	e	Alarm and Swi							
Self Diagnostics		Upon Power On and So							
EPO (optional)		Shut Down UPS In	· · · · · · · · · · · · · · · · · · ·						
Battery		Advanced Battery M	anagement						
COMMUNICATION									
JPS Frame		CAN, RS232, RS485, II							
Optional		Dry Contact / Relay Card, SNMP Card							
Parallel		Maximum 4 cabinets can be o	connected in parallel						
STANDARDS									

		MODULERA	FRAME SPECIFI	CATIONS			
Model Name	MDL3330-150K MDL3350-150K	MDL3350- 200K	MDL3330- 300K MDL3350- 300K	MDL3350-400K	MDL3350- 500K	MDL3350-600K	MDL3350-800K
Frame Power (kVA - kW)	150kVA/150kW	200kVA/200kW	300kVA/300kW	400kVA/400kW	500kVA/500kW	600kVA/600kW	800kVA/800kW
Max Module Capacity (pcs)	5pcs 30kVA 3pcs 50kVA	4pcs 50kVA	10pcs 30kVA 6pcs 50kVA	8pcs 50kVA	10pcs 50kVA	12pcs 50kVA	16pcs 50kVA
Frame Dimensions (W*D*H) (mm)	600x850x1200	600x850x1600	600x850x2000	1200x850x2000	1200x850x2000	1400x850x2000	2000x850x2000
Frame weight (kg)	170	230	260	470	650	720	1080
DISPLAY							
LCD Display			Touchscreen	LCD Panel on the	main Frame		
Status LED & LCD		Line Mode	, Bypass Mode, B	attery Low, Battery	Bad, Overload &	UPS Fault	
Displays on LCD Panel	Input Voltage, Inp	ut Frequency, Out	put Voltage, Outpi	ut Frequency, Load	Percentage, Batt	ery Voltage & Inter	nal Temperature
ENVIRONMENT							
Operating Temperature (°C)				0°C - 40°C			
Storage Temperature (°C)				-25°C - 55°C			
Relative Humidity			0 - 9	5% (non-condens	ing)		
Operating Altitude (max.)				< 1500m			
Audible Noise Level from 1m	<63dBA	<65dBA	<68dBA		<70dBA		<73dBA
Protection Class				IP21			













Frequency Converter

3 Phase In - 3 Phase Out / 10 - 120kVA

- Double conversion and PWM technology with pure sinewave output,
- Microprocessor controller,
- Galvanic isolation,
- Efficiency up to 91%,
- Emergency close switch connection,
- User friendly front panel (5 buttons and LCD indicator), detailed information
- availability to do the adjustment of parameters through front panel,
- History log of 128 events, calendar and time indicators,
- High performance at non-linear loads,
- Remote monitoring via network,
- SNMP compatibility,
- 10 Years spare parts supply warranty,
- Low installation and operating cost



MODEL	FC 3310	FC 3315	FC 3320	FC 3330	FC 3340	FC 3360	FC 3380	FC 33100	FC 33120				
Output Power kVA	10	15	20	30	40	60	80	100	120				
Output Power Kw	8	12	16	24	32	48	64	80	96				
Power factor					0.8								
INPUT													
Voltage		400 VAC or 380VAC, 3Ph+N+PE											
Tolerance					±10%								
Frequency					50 / 60Hz								
Tolerance					±5%								
Power factor					0.8								
max RFI				E	N 50091-2 Clas	ss A							
OUTPUT													
Voltage				2	08VAC, 3Ph+N-	+PE							
				static	(balanced load): +/-2%							
Voltage Stability				static (ı	unbalanced loa	d):+/-4%							
				Dynamic ((0% - 100%step	load):+/-6%							
Uptum Time				after 0%-1	00% step load:	max 25m sec							
Crest factor					3:1								
Frequency					400 Hz								
Frequency Tolerance					±0.2%								
Overload 101% - 110% load					1h								
Overload 130% load					10min.								
Overload 150% load					1min.								
Overall Efficiency					up to 91%								
Total Harmonic Distortion					<3% at linear lo	ad							
Total Harmonic Distortion				<59	% at non-linear	load							
COMMUNICATION													
Interface				RS:	232 and Dry Co	ntact,							
PHYSICAL													
Weight without battery (kg)	240	255	270	285	490	570	600	750	810				
Dimensions (mm) WxDxH		490x6	50x1190		565x82	0x1400	720x800x1450	1192x87	74x1720				
ENVIRONMENT													
Audible Noise			<55dBA			<	60dBA	63 to 6	66dBA				
Operating Temperature					0-40°C								
Relative Humidity (non condensing)					0-95%								
Max. Altitude					<1000m								
Standards			EN 50091	-1 (safety), EN 5	0091-2 (EMC), I	EC 62040-3 (cl	ass VFI), IP20						



AVR Series

One Phase 1 - 200 kVA / Three Phase 6 - 3200 kVA

- Servo Motor Controlled Technology
- Reliable Stabilization for Secure Energy
- 1 pc (digital) voltmeter (@ One phase version)
- 3 pcs (digital) voltmeter (@ Three phase version)
- Phase Independent Voltage Regulation (@ Three phase version)
- High efficiency at all Powers
- Short circuit protection
- Manual by-pass switch
- Overload, short circuit, over-temperature and over-voltage protections
- Fast response for fluctuations
- Adjustable precise tolerance limits from front panel
- Fan cooling with timer
- Fault signal (Light & Buzzer)
- High low voltage protection (breaker module option)
- Comply with CE, ISO9001, ISO14001 standards
- Wide Voltage Range version (optional)





MODEL	Single phase	Three phase
Power (kVA)	1-200 kVA	6-3200 kVA
INPUT		
Nominal Voltage	220 VAC 1Ph+N	380 VAC 3Ph+N
Voltage Range (Normal Range)	160-	-240 VAC (Ph+N)
Voltage Range (Wide Range-optional)	135-	-245 VAC (Ph+N)
Frequency		50 / 60 Hz
ОИТРИТ		
Phase Number	1Ph + N + PE	3Ph + N + PE
Nominal Voltage	200 V AC / 220 V AC / 240 V	AC (Ph+N) (Adjustable from front panel)
Output Voltage Tolerance	2% (Adj	ustable from Menu)
Response Time		200 Vac / sec
Frequency Speed	Frequency @ 50Hz: 2	Oms -/ Frequency @60Hz: 50 ms
Output delay time adjustment	1 sec to 10 se	c (Adjustable from Menu)
Overload	Running	g 3 sec at 150% load
Efficiency	Up to	97% at full load
GENERAL PARAMETERS		
Mechanic By-Pass	With	n Manual Switch
Automatic By-Pass		Optional
Cooling System		Smart Fan
Harmonic Distortion		No effect
Input voltage / Output voltage Display	TRUE RMS	(Adjustable from Menu)
Display Panel	2x3 Di	igit red led display
ENVIRONMENT		
Operating Temperature	- 10°C + 50°C (20°C - 25°C re	ecommended range for Long Battery Life)
Storage Temperature	-25°C - +55°C (15°C - 40°C re	ecommended range for Long Battery Life)
Humidity	0 - 95%	(non-condensing)
Altitude		<3000 Metre
Noise Level (from 1m distance)		<50 dB
Protection Class		IP20

^{*}Breaker module maintains low/high voltage protection & Phase missing protection and it is optional.
*Physical size and weight information of the product varies according to the voltage range version and options equipped.















Infocharger

25-200 A

- Microprocessor Controller
- IGBT Technology (ICH Series)
- PFC Technology (ICC Series)
- Transformerless Design
- Wide Input Voltage Range
- Operation according to constant voltage and current principle
- Adjustable Boost and Nominal Charge Voltage
- Adjustable Output Current
- High Voltage, Over Current, Short Circuit Protections
- Over Temperature Protection
- Alphanumerical LCD Display and Control Panel
- Low DC Voltage Protection (LVD) Optional
- Dry Contact Alarms- Optional
- Parallel Connection Availability at ICH Series Optional
- Small Footprints, Compact Size



ICC Series



ICH Series

TYPE	ICC2460	ICC4830	ICC11015	ICH2450	ICH24100	ICH24200	ICH4850	ICH48100	ICH11025	ICH11050		
Power	60Amp	30Amp	15Amp	50Amp	100Amp	200Amp	50Amp	100Amp	25Amp	50Amp		
DC Voltage	24VDC	48VDC	110VDC	24VDC 48VDC 11								
INPUT												
Input Phase		1Phase		1Phase / 3Phase								
Nominal Voltage Range		90-265VAC				176-28	OVAC (Ph - N	1)				
Frequency Range					50/60H	z ± 10%						
Power Factor		>0.98					>0.8					
OUTPUT												
Nominal Voltage	24VDC	48VDC	110VDC		24VDC		48\	VDC	110	VDC		
Nominal current	60Amp	30Amp	15Amp	50Amp	100Amp	200Amp	50Amp	100Amp	25Amp	50Amp		
Output Current Adjustment value	0 to 60A	0 to 30A	0 to 15A	0 to 50A	0 to 100A	0 to 200A	0 to 50A	0 to 100A	0 to 25A	0 to 50A		
Max Output Current					110% of	Inominal						
Boost Charge Voltage				100% -	120% of the n	ominal output v	roltage					
Output Fluctuation					<1% rms AC (Output Voltage						
Dynamic Response					less than 2% of	output voltage						
Output protection				ele	ctronic short ci	rcuit / over volt	age					
DISPLAY												
LCD Display Panel			Volt	age, Current,	Temperature,	Charge and Sta	tus Informat	ions				
LED Display Panel				Overload, L	ine, Battery, Lo	ad, LVD, Fault	Indications					
GENERAL												
Cooling					Forced (FA	N Cooling)						
Isolation Voltage				200	OVAC between	output and cha	ssis					
Efficiency					90	%						
Operating Temperature					0 – 4	0 °C						
Relative Humidity					0% -	95%						
Input/Output Connections					Term	inals						
Fuses					input, load	and Battery						
PHYSICAL SPECIFICATIONS												
Net Weight (kg)		11.6					35					
Dimensions (mm) (WxDxH)		250x420x280	1			265	x556x560					
STANDARDS												
Safety					EN620	40-1-1						
EMC					EN62	040-2						
Performance					EN62	040-3						
Protection Class					IP	20						
OPTIONS												
Dry Contact Card	9pcs cor	itact alarms	(NO/NC)			8pcs contac	ct alarms (N	O/NC)				
LVD				Lov	v Voltage Disco	nnect (Contact	or)					
Parallel Connection		Not Available	9			ир	to 7 units					













Battery Charger

5-700 A

- Microprocessor controlled Thyristor Technology
- Built in input transformer topology
- Fully Adjustable float, boost and equalizing charge modes with V/I characteristics
- Advanced technology for phase control
- Very low voltage ripple and extended battery life
- High efficiency and low operation cost
- Ability to operate as voltage or current source
- Wide range of options for monitoring
- Improved environmental operation characteristics
- Remote monitoring via RS232 communication port
- Potential free alarm contacts on extended alarm board
- Internal Over Temperature protection
- User Friendly Control Panel



DC Voltage	24VDC	48VDC	110VDC	220VDC
NPUT				
nput Phase		1Phas	se/3Phase	
Nominal Voltage Range		1x220V or 1x230V / 3x380V	V or 3x400V ± 15 % – 2 / 4 wire	
Frequency Range		47	7-63Hz	
ОИТРИТ				
Nominal Voltage	24VDC	48VDC	110VDC	220VDC
1Ph Nominal current	60A	15A/30A/40A/60A	5A/20A/30A/40A/60A/80A/10 0A/120A/150A	15A/30A/40A/60A
3Ph Nominal current	30A/60A/100A/150A/ 200A/250A/400A	10A/30A/60A/100A/ 150A/200A/250A	30A/60A/100A/150A/ 200A/ 250A/300A/400A/ 500A/700A	30A/60A/100A/150A/ 200A/250A/300A/400A/ 500A/700A
Max Output Current		110%	of nominal	
Float Charge Adjustment Range		80% - 115% of the	nominal output voltage	
Boost Charge Voltage		80% - 125% of the	nominal output voltage	
Equalizing Charge Adjustment Range		80% - 125% of the	nominal output voltage	
Current Limit Adjustment Range		25% - 100% of the	nominal output voltage	
Voltage Ripple		< 1% (with o	r without battery)	
Voltage Regulation		< 1% (10%	to 100% load)	
Efficiency	87%	89%	91%	93%
DISPLAY				
LCD Display Panel		Voltage, Current, Char	ge and Status Information	
_ED Display Panel		Line, Operation	n, Fault Indications	
GENERAL				
Charger Mode		Automatic / Man	ual U-I Characteristic	
Charger Type		Float / Boost /	Equalizing Charge	
Cooling		Forced Cooling with	Thermic Controlled Fan	
nput/Output Connections		Ter	minals	
Fuses		Semicor	nductor Type	
ENVIRONMENT				
Operating Temperature		-5 -	- +50 °C	
Relative Humidity		0 - 95% (no	on-condensing)	
Protection Class		IP 20 (Higher I	P Class is optional)	
STANDARDS				
Standards	89/33	36/EEC (EMC); 62040-1, 62040	0-2, 62040-3, IEC 950, IEC 439, IEC	146
OPTIONS				
Dry Contact Card		4pcs contact alarms / no	rmally(closed/open /Modbus)	
Parallel Connection		Av	ailable	
Others	Battery Charge Ten	nperature Compensation, IP I	ring, Gauges, Load Voltage Limitat Protection, Touch panel, LVD, Fan nt, Active parallel current sharing	













Info-STS (1 Phase)

1 Phase In - 1 Phase Out / 50 - 100 A

- Uninterruptible transfer between the independent sources
- Synchronous/Asynchronous transfer feature
- "In flight" transfer mode
- RS232/RS485 communication facilities
- Source priority selection
- Automatic and Manual transfer in case of failure on both sources
- Module replacement without interruption under load
- Fast Diagnostic Response with microprocessor controller
- Internal (2 pcs) manual bypass
- Easy Maintenance availability
- Current Distortion level less than 1%
- High Efficiency
- Transfer to the second source in less than 5 ms in case of over low/high voltage values



MODEL	STS1050	STS1100
GENERAL SPECIFICATIONS		
Nominal Voltage	220V / 230VA0	C (Monophase)
Nominal Operation Current	50A	100A
Transfer Time (Synchronized)	5r	ms
PHYSICAL SPECIFICATIONS		
Cable Entry	Re	ear
Air Entry/ Exit	Botto	m/Top
Advised Cable Cross Section	10mm2	35mm2
Dimensions WxDxH	(19"x360mmx2U)	(19"x360mmx4U)
Weight (kg)	9kg	17kg
ENVIRONMENT		
Max Altitude	2000m abo	ve sea level
Humidity	0 - 95% (non	-condensing)
Operating Temperature	0-4	0°C
Audible Noise (from 1m)	<45	dBA
Protection Class	IF	220
STANDARDS		
Standards	EN 62310-2, EN 62	2310-1, EN 60950-1













Info-STS (3 Phase)

3 Phase + Neutral In - 3 Phase + Neutral Out / 50 - 600A

- Increased power quality
- Easy monitoring all parameters on LCD display
- Fast microcontroller (32 mips)
- Power blackout protection
- Automatic static switching
- Remote monitoring of input power sources
- Easy static and mechanical transfer between separate input sources
- Remote management of power events
- Power event logging
- Advanced RS232 communication features
- DRY contact alarm interface
- Password protected login system from remote site (time Access)
- Easy front access to all components inside of the STS
- Second protection cover on live circuits which prevents electrical shock
- Input sources protected by fuses
- 3 positioned Maintenance bypass switch which prevents cross currents between input sources
- User adjustable parameters by entering a password.
- Built in real time clock.
- Alarm history (with date and time)
- Automatic transfer test from a remote site or using front panel
- Front panel Lamp test
- External emergency shutdown (EPO) input
- Hot plug construction during maintenance bypass
- High current output tolerance up to 1000%
- Temperature sensor inside the Cabinet
- Fast voltage black-out circuit
- Input phase balance and phase sequence fault detect circuit
- Adjustable Input source frequency lower/upper limits



MODEL - 3pole MODEL - 4pole	STS3050 STS4050	STS3100 STS4100	STS3150 STS4150	STS3200 STS4200	STS3250 STS4250	STS3300 STS4300	STS3400 STS4400	STS3600 STS4600					
INPUT .													
Voltage			380,400VAC, (3			<u>res for 4pole ver</u>	sion)						
Voltage Range					-430VAC								
requency					60Hz +/-5%								
/oltage Distortion					<10%								
nput voltage error window		adjustable											
nput frequency error window				ad	ustable								
DUTPUT	EOA	1004	150A	2004	250A	2004	400A	/ 00 4					
Current /-It	50A	100A	380,400VAC, [3	200A		300A		600A					
Voltage Crest factor			380,400VAC, (3		to 3.5	res for 4pote ver	Sionj						
Synchronized transfer time				U	on 0 current mo	1 - 1							
Non-syncronised transfer time		may 10 m	sec in 0 current i	mada 0 25 cac	on o current mo	ou made and in	O aurrant mada						
oad power factor range		IIIdX IU II	isec iii o currenti	N & Laggin	g to 0.9 leading	ay mode and m	o current mode						
Efficiency				0.0 taggiii	>98%								
Iniciency					50% = 1 minute								
					0% = 10 seconds								
Overload						•							
					0.5 seconds								
					= 20 msecs								
ype of transfer					efore make								
As standard			O\	<u>rercurrent inhibi</u>	t LCD front pane	el, MBP							
DISPLAY				0.1: 4.4.1	. LOD D:								
CD Display		1 \/. 1	s, Source 2 Voltag	Z lines 16 cha	racter LCD Disp	lay	C 1 F						
Monitored Parameters	50	ource i vollage					on Source i Freq	uency,					
			Source 2		<u>se Angel Degree</u>								
ndications					d as mimic diag								
Control buttons					ractive with LCE								
event log			64 r	ecorded alarm l	ogs from panel (or RS232							
COMMUNICATION nterface (Communication Ports)				DC 00	2 Ct								
nterrace (Communication Ports)	0.	itarit labibit D-	lay, Summary Ala	KS Z3	2 Standard	sfor Dolov C1 /	2 Dookfood T-:-	Dalay					
Dry contact signals	U							петау,					
, ,		Preterr	red Source Indica	tor Kelay, Load I	s Connected To	Alternate Input !	ource Kelay						
SENERAL					1./								
Neutral connection		E	LIL ODEMA O IEE		t 4pole version	f							
ransfer time Manual transfer switch		<pre><pre><pre>smsec : with</pre></pre></pre>	hin CBEMA & IEE		<u>red sources < FF</u> railable	nsec: for unsyn	chronizea source	25.					
				a\	апарте								
NVIRONMENT					-40°C								
Operating Temperature Relative Humidity					on-condensina)								
PHYSICAL SPECIFICATIONS				U - 75% (N	on-condensing)								
Dimensions (mm) WxDxH		685x530x1500)		40555	0x1770		915x735x19					
		175)	205	215	220	240	340					
Veight (kg) STANDARDS					2.10	220	2.10	040					

MEDICAL ISOLATION POWER SYSTEMS



Infomips

Isolation Power Systems With Transfer Unit And Isolation Error Detection System

Isolation power panels with transfer units are designed with double source inputs. The transfer unit monitors the priority selected source continuously and directs the output to the 2nd source in cases such as power cuts and voltage out of the set values. In case the priority source returns to nominal values, the output continues to be operated from the 1st source again.

In addition to isolation power panels with transfer units, a line monitoring system is included. All output lines are monitored separately via torodial current transformers. Isolation leakage is detected on a line basis. Due to the 6 toroidal current transformers, the panels are produced with 12, 18 and 24 lines.

TECHNICAL SPECIFICATIONS

- Patient and doctor life safety
- Automatic transfer changeover system
- Transfer time under 100ms
- 10 kVA isolation power transformer
- Isolation monitoring device
- Error detection system
- Line-based isolation leakage monitoring
- LCD screen
- 12/18/24 pcs 2x16A B type line output
- 0-43A load current
- Transformer temperature value tracking
- Load current monitoring
- Remote monitoring with local and central alarm panels
- Multi-device communication possibility
- RS485 Mod-Bus / TCP-IP Mod-Bus communication

GTFD Series Isolation Transformer

Transformer providing the necessary isolation for Group – 2 fields in the hospital.

Standards: IEC 61558-2-15 IEC 60364-7-710

Isolation Monitoring Module

It continuously monitors the isolation resistance level and gives an alarm if there is a leakage between the system and the ground. Apart from the isolation level, it constantly monitors the current drawn from the system and the transformer temperature. It can transmit all data as instant value and alarm to local and central alarm panels.

Standards: IEC 60364-7-710 IEC 61557-8 IEC 61557-9

Transfer Module

Transfer Modules are devices that control two contactors and simultaneously monitor Input-Output Voltages and Current Drawn in order to transfer the double line supply to the output without interruption. It can transmit all data as instant value and alarm to local and central alarm panels.

Standards: IEC 60364-7-710 IEC 60364-5-53 IEC 60947-6-1













Local And Central Alarm Panels

Local Alarm Panels are units that display all the data and alarms of the panel by installing them in the area fed by the isolation panel. From local alarm panels; You can monitor Isolation resistance level and its alarm, Current drawn value and its alarm, Transformer temperature and its alarm, Line-based alarm information from error detection system, Line feeding information, Line1, Line2 and Output voltage information. The whole system communicates with each other via Mod-Bus. The central monitoring panel is used to display the information of all panels in the same group from a single point. It is generally located in the technical staff room.

Standards: IEC 60364-7-710

TECHNICAL SPECIFICATIONS

- Ability to operate as a local or central alarm panel
- Monitoring up to 16 boards
- Isolation level monitoring
- Current level monitoring
- Temperature monitoring
- Source monitoring
- Line-based error monitoring
- LCD graphic display
- Audible and visual alarm
- Data export with MODBUS and IPtly.



21" Central Monitoring Panel

The 21" Central Monitoring Panel provides the opportunity to monitor up to 300 panels over the Network. IT panels can be grouped and named as desired. It provides the opportunity to name up to the line outputs. It can transfer all data to the scada system over the network.

TECHNICAL SPECIFICATIONS

- Windows operating System
- 21" infrared touch screen
- Built-in speaker
- Possibility to communicate up to 300 panels
- Possibility to define IP address
- TCP-IP communication protocol







CATALOGUE

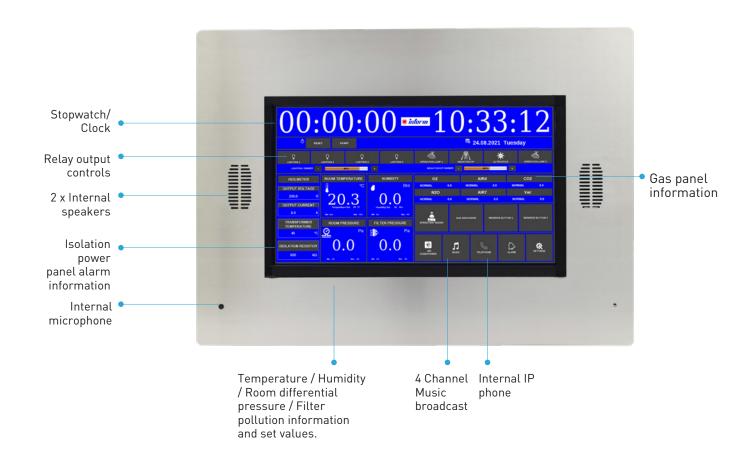


Operating Room Control Panels

Wildtouch 21" Operating Room Control Panel

Operating room control panels are used to control the lighting, operation lamps, negatoscope, etc. units in the room, and to display environmental information such as temperature, humidity, filter pressure, room differential pressure with external sensors to be connected. It has many additional features such as communicating with gas panel and automation system, handsfree phone, music system.

- 21" widescreen display
- 4 x Music channels, 2 x internal speakers
- Handsfree internal phone.
- RS485 / TCP-IP communication protocols.
- Clock, Stopwatch and Gas information on one screen.
- DIN4301 stainless steel front panel.
- Communication with IT panel and Gas panel directly.



Operating Room Control Panels



SCREEN	
Screen type	21.5" Infrared touchscreen
Clock	On the main menu
User data input	Touch screen
INPUTS	
0-10V analog sensor input	8 Reserved analog inputs
Music input	4 Channels
Temperature / Humidity / Filter pressure / Room pressure	4 Channel analog input
OUTPUTS	
Lighting	4 Channels / (On-Off) - (L1/L2/L3/L3) + Dimmer
Operation lamp	2 Channel / (On-Off)
Negatoscope	1 Channel / (On-Off) + DIMMER
Operating room busy luminaire	1 Channel / (On-Off)
Ultraviolet lamp	1 Channel / (On-Off)
Heater	1 Channel / (On-Off)
Air conditioner (half flow / full flow)	2 Channel / (On-Off)
Gas information	8 Channels
Reserved	8 Reserved analog output
Temperature / Humidity set	2 Analog output
Music	4 Channels
Alarm	(On-Off)
Alarm mute	(On-Off)
SPECIFICATIONS	
Operating system	Linux
Temperature / Humidity / Pressure sensor limit setting	Lower limit / Upper limit setting, buzzer available
Gas discharge outlet	1 Channel / (On-Off)
Internal speaker	Available
Internal microphone	Available
Phone	Internal IP Phone
MEASUREMENTS	
Temperature	0°C-50° C / 0-10V Analog
Humidity	0%-100% / 0-10V Analog
Room pressure	Pascal / 0 Pa- 100 Pa / 0-10V Analog
Filter pollution level	Pascal / 0 Pa- 100 Pa / 0-10V Analog
Audible alarm	Adjustable
Communication	Mod-Bus(RS485) / TCP-IP
Front panel	DIN4301 (2mm Stainless Steel)
DIMENSIONS	
Dimensions (WxDxH)(mm)	703x135x498











EMERGENCY

Battery Cabinets

								Capacity						Cabinet dimensions			
	Battery	Cabinet model	7-9 АН.	12AH.	18 AH.	25 AH.	40 AH.	65 AH.	80 AH.	100 AH.	120 AH.	150 AH.	200 AH.	Length	Width	Height	Weight
	cabinet type		7-	-	18	25	70	39	80	10	12	15	20	Le	3	Ĭ	š
		BC 00	32	22	14	6	6							655	230	530	15
		BC 10	64	42	24	12	12							835	246	700	25
		BC 20	76	48	32	15	15	6	6					957	246	760	30
		BC 30	144	96	40	38	32	16	16					926	386	1073	50
	BC Cabinets	BC 40	120	72		32								828	386	846	35
44 (44)	(multi-purpose)	BC 45	109	72	64	28	24							957	422	800	55
		BC 50	240	144		64	48	32	32	32	8			1566	386	1166	80
		BC 55				78	78	38	38	38	30			1497	749	1800	139
		BC 60			124	100	80	64	64	64	45	45	32	1774	565	1785	230
		BC 65				180	150	90	90	90	60	60	40	2540	565	1785	204
		V 14			62	31								400	765	1070	51
. 48		V 15		62										400	765	1070	51
	V type PDSP Cabinets	V 24				32	31							525	880	1310	64
		V 33						35	35	35				835	1160	1310	143
		V 34				94	78							835	1160	1310	143
		BC 1000		6										135	430	390	10
	V type İnformer Cabinets	BC 2000	8											135	470	390	10
	Odbillets	BC 3000	12											135	470	390	10
		RMBC 1000		6										483	470	132	10
Columnia Barlony Colonial	İnformer Rack Cabinets	RMBC 2000	8											483	450	132	10
	Cabinets	RMBC 3000	12											483	512	132	10
		BC 1714			14									270	512	685	28
		BC 1426				14								270	655	685	30
		BC 0740	40											270	655	685	28
	V type Saver (plus) DSP Cabinets	BC 1720			20									270	655	685	30
		BC 2620				20								390	755	700	46
u u		BC 1232		32										270	655	685	30
		RMBC 0714	14	- 02										483	535	134	11
		RMBC 0714	14	14										483	535	222	12
	Saver DSP Rack Cabinets	RMBC 1214 RMBC 0720	20	14										483	535	222	11
			ZU	20													
	BC Cabinets	RMBC 1220	000	20										483	535	222	17
	(DSP Multipower) V type DSP	MPBC	20	20										425	563	222	16
	Multipower Cabinets	MPBC-V	20											445	677	132.9	15



High performance, uninterruptible service and energy efficiency.

The wide diffusion of UPS systems generally stems from an increasing dependence on electricity and the need to protect a range of equipment, data and processes that are crucial to companies. Power electronics is focused on the design and development of static UPS with increasing performance, which provide adequate energy saving along with lower environmental impact.

Safety and uninterruptible service

Any electronic device that is not properly protected by UPS systems may be subject to disturbances from the mains supply. Electrical events such as voltage dips, black-outs, voltage surges, or other voltage or frequency anomalies, can generate serious consequences including:

- interruption of services
- loss of data and information
- faults or damage to the actual electronic devices.

The solution to these problems is provided by Uninterruptible Power Supplies (UPS) which, when installed between the power supply network and the equipment, **improve the quality of the power** by ensuring **uninterruptible service** and **protection** of all devices that perform functions that are critical to the business life of companies.



Energy efficiency

Thanks to the use of the latest technologies, the new concept UPS boast high efficiency and an intelligent battery charging system that extends its useful life. In addition to significantly reducing UPS consumptions and operating costs, these features contribute to reducing the environmental impact of battery disposal.

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- AL RAYTH HOSPITAL S. ARABIA



Reliable

Directly present in more than 70 countries and servicing its products worldwide, a team of qualified engineers is available 24/7/365 to support your UPS system to ensure power quality and availability to the most critical loads.

Excellent

Inform's competitive edge lies in its ability to provide high value-added UPS systems and services for both end users and business partners.

For Inform, creating value means coming up with solutions for lower energy consumption, but also integrating product design into the overall development process.

Tailor-made

Inform offers a complete range of specific solutions and services to meet customer requirements:

- Technical pre-sales support at the project design stage
- Factory acceptance test
- Supervision of installation, testing and commissioning, site acceptance test
- Operator training
- Site audit
- Warranty extension
- Annual maintenance contract
- Fast intervention on emergency call





SITE INSPECTION, INSTALLATION SUPERVISION.

We perform a comprehensive check of the UPS environment to ensure safety and fault-free operation.

Our technical experts give manufacturer's recommendations to the site engineer or electrical contractors, and supervise the UPS installation before load power-up.

SITE TEST, COMMISSIONING.

Our Service Engineers conduct rigorous site tests and full setting-up of the UPS system before going live. They also perform site acceptance tests according to your requirements. Commissioning operations for all UPS are carried out by qualified engineers to guarantee seamless start-up. After the final handing over of the UPS system, a Test and Commissioning report is delivered to you.



We offer on-site training to ensure your equipment's safe and efficient operation.

Troubleshooting courses are also available in our plants for intensive hands-on practice on UPS training equipment.



PREVENTIVE MAINTENANCE

Electronic equipment and power systems, such as UPS, contain life-limited components and parts that must be replaced according to the manufacturer's specifications.

To ensure optimal performance and to protect your critical application from potential downtime, it is crucial to perform

preventive maintenance operations on a regular basis and replace parts when needed. Our Service Contracts include cleaning, IR thermography, measurements, functional tests, event log and power quality analysis, battery health check, hardware and software upgrades, and technical reports. A Preventive Maintenance Plan is one of the most cost-effective actions that can preserve your initial investment and ensure your business continuity.

CORRECTIVE MAINTENANCE, EMERGENCY CALL

In the event of an Emergency Call, our worldwide service network, with engineers and spare-parts stocks strategically located as close as possible to your site, guarantees a fast intervention time with 24/7/365 assistance.

After connecting his laptop to your UPS, very powerful diagnostic software helps our engineer to identify the fault, thus ensuring short MTTR (Mean Time To Repair).

Corrective actions are performed such as part replacement, adjustments and upgrades to return the UPS system back to normal operation.



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