



HOME/OFFICE

DATA CENTER

MEDICAL

INDUSTRY

TRANSPORTATION

EMERGENCY

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(>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)



UPS ONLINE



TOWER



LCD DISPLAY (10-120kVA)



SERVICE

* 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



TESID Innovation and Creativity Award 2005



Pyramid DSP

TECHNICAL SPECIFICATIONS

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
MODEL (200-208-220V 3Ph version)	PDSP-U33005	PDSP-U33007	PDSP-U33010	PDSP-U33015	PDSP-U33020	PDSP-U33030	PDSP-U33040	PDSP- U33050	PDSP-U33060
Output power (kVA)	5	7,5	10	15	20	30	40	50	60
Nominal Active Power (kW)	4	6	8	12	16	24	32	40	48
INPUT									
Number of phases	3Ph+N+PE								
Nominal Voltage (Ph-Ph)	380V / 400V / 415V (PDSP) & 200V / 208V / 220V (PDSP-U)								
Voltage range (%100 load)	[-15] % (+27) % @PYRAMID DSP / ±15% @PYRAMID DSP-U								
Voltage range (%64 load)	[-45] % (+27) % @PYRAMID DSP								
Voltage range (%42 load)	[-64] % (+27) % @PYRAMID DSP								
Nominal Frequency (Hz)	50 or 60								
Frequency range for online operation	±10%								
Input Current THD	≤4% (*) (**)								
Input Power Factor	0,99								
OUTPUT									
Power factor	0.8								
Number of phases	3Ph+N+PE (PDSP & PDSP-U) / 1Ph+N+PE (1Ph ver.)								
Voltage (3ph_ Phase to Phase)	380V/400V/415V (PDSP) & 200V / 208V / 220V (PDSP-U) / 220 / 230 /240V (1 ph ver.)								
Static Voltage Regulation at %100 Linear Load (online&battery mode)	<1%								
Voltage THD at rated linear load	<3%								
Crest Factor	3:1								
Frequency (Hz)	50 or 60								
Free Running Frequency (Hz)	± 0.01%								
Overload	125% for 10 minutes 150% for 1 minute								
Efficiency	up to 94% (**)								
BATTERY									
Type	Maintenance-free lead acid batteries								
Quantity (pcs) PDSP version	62 (2*31)								
Quantity (pcs) PDSP-U version	34 (2*17)								
Battery Protection	Deep Discharge Protection with Auto Cut off								
Battery Test	Standard (Automatic and Manual)								
DISPLAY									
LED Display	Line, Bypass, Battery, Inverter, Load, Fault Indications								
LCD Display	Load%, Input & Output Frequency, Voltage & Current, Bypass voltage, Battery Voltage & Current, Temperature, Alarms								
STATIC BYPASS									
Number of phases	3Ph+N+PE								
Voltage Range for bypass operation	± 10%								
Frequency Range for bypass operation (Hz)	± 6% (Configurable)								
COMMUNICATION									
Interface (Communication Ports)	RS232&485 @ 10 to 120kVA / RS232&422 @ 160 to 400kVA								
Dry Contact Signals (optional)	AC failure, Battery under voltage, bypass operation, output failure								
Others	EPO, Generator interface								
ENVIRONMENT									
Storage Temperature Range (°C)	-25 to +55 (15 to 40 recommended for longer battery life time)								
Operating Temperature Range (°C)	0 to 40 (20 to 25 recommended for longer battery life time)								
Relative Humidity Range	0-95% (non-condensing)								
Maximum Altitude without derating (m)	1000								
Protection Level	IP20								
PHYSICAL SPECIFICATIONS	PDSP 33010 U33005	PDSP 33015 U33007	PDSP 33020 U33010	PDSP 33030 U33015	PDSP 33040 U33020	PDSP 33060 U33030	PDSP 33080 U33040	PDSP 33100 U33050	PDSP 33120 U33060
Dimensions wxdxh (cm)	40 x 78 x 107			52 x 90 x 130		67x73x163		85x78x182	
Weight (kg)	100	114	116	122	180	202	253	285	405
STANDARDS									
Standards	EN 62040-1-1 (safety), EN 62040-2(EMC), EN 62040-3 (VFI-SS-111)								
(*) for source having THDv < 2 % @ nominal load (**) varies depending on ups power									