ONLINE UPS















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











TECHNICAL SPECIFICATIONS

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						380V/400V/415V
Minimum Voltage	160 V	180 V 320 V				
Maximum Voltage	288 V	280 V 485 V				
Frequency	± 5 Hz	45 - 65 Hz				
Power Factor	0.99					
OUTPUT						
Power Factor	0.8					
Phase Configuration	1Ph + N + PE					
Nominal Voltage	220V / 230 / 240V (adjustable)					
Wave Form	Pure Sine Wave					
Total Harmonic Distortion at 100% linear load	<3%					
Frequency	50Hz or 60Hz (adjustable)					
Frequency Tolerance (free running)	±0.2 %					
Static Voltage Regulation (0%-100% load)						
Crest Factor	3:1					
Transfer Time	0 sec					
Overload	30 sec @ [106%-120%] 2min @ [100%-120%]					
	10 sec @ (120%-150%) 30sec @ (120%-150%)					
Total Efficiency	Transfers to Bypass @150% >90% >92%					
BATTERY	\$7070			97 Z 70		
			Maintananca fraa k	and acid hattories		
Type Recharge Time (for Internal Battery)	Maintenance-free lead acid batteries 4-6h up to 90%					
Quantity per String	6pcs 12V Batteries 20 pcs 12V Batteries					
Voltage	6pcs 12v Batteries 2u pcs 12v Batteries 240VDC 240VDC					
Internal Batteries (Optional)	72 VDC 24UVDC 7Ah, 9Ah					
Cold Start	/An, 9An Present					
DISPLAY			Frese	ent		
	Line Made Back up Med	la Fac Mada Dunasa (Junaly Battany Law Batta	ny Rod/Disconnoct Out	rload LIDC Fault Intern	untion during transfer
LED + LCD Display LCD Display	Line Mode, Back up Mode, Eco Mode, Bypass Supply, Battery Low, Battery Bad/Disconnect, Overload, UPS Fault, Interruption during transfer					
Self Diagnostics	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load%, Battery Voltage, Internal Temperature Upon Power On, Front Panel Setting and Through Software Control, 24h routine Check					
PROTECTION		Opon Power On, Fro	one Paner Setting and Thi	ough Sollware Control,	Z411 TOUTINE CHECK	
		D	a in an Invitation by alternation			
Overload Protection	Bypass transfer time is calculated by simulating a temperature related model of a fuse					
Short Circuit Protection	Acts as the ideal current source during the short circuit time Against excessive (heat, voltage, current) intense battery discharge					
Other Protection		Against e	rcessive (rieat, voltage, Ct	ment, intense battery d	iscridige	
COMMUNICATION		Character DCCC	10ttt DC (0	E letered CNMD D		
Interface (Communication ports)		Standard RSZ	32 port and optional RS48	o, internat SNMP, Dry C	ontact Cards	
ENVIRONMENT			200	/0°0		
Operating Temperature	0 °C + 40 °C					
Proposed Temp. to extend battery life	20 - 25 °C					
Humidity	0 - 95% (non-condensing)					
Audible Noise at 1 m	<50 dB <52 dB					
Protection Class			IP 2	U		
PHYSICAL SPECIFICATIONS	10.004 (5)					
Dimensions(mm) (HxWxD)	449x226x454		00	585x254x710	00	
Weight - without battery (kg)	19		30		38	45
STANDARDS						
Standards			EN62040-1-1 (Safety)	; EN62040-2 (EMC)		
ACCESSORIES						
Optional	Internal&External SNMP, I	Dru Contact Doord Mo	21 2 1 1 1 1 1 1 1			