ONLINE UPS





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 unitsInput Power Factor Correction PFC
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 High output power factor (PF: 0.9)
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 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





TECHNICAL SPECIFICATIONS

MODEL	DSPMP-1105	DSPMP-1106	DSPMP-1110	DSPMP-3110	DSPMP-3115	DSPMP-3120	
Power (kVA)	5	6	10	10	15	20	
Power (kW)	4.5	5.4	9	9	13.5	18	
INPUT							
Phase Configuration Nominal Voltage	1Ph + N + PE [Hardwire] 2Ph + N + PE [Hardwire] 2Ph + N + PE [Hardwire]						
Minimum Voltage (at Half load)	220VAC/230VAC/240VAC 160VAC				380VAC/400VAC/415VAC 277VAC		
Minimum Voltage (at Hali load) Minimum Voltage (at Full load)	180VAC 180VAC				312VAC		
Maximum Voltage	280VAC				485VAC		
Frequency	45-65 Hz						
Power Factor	0.99 0.95						
Frequency Power Factor OUTPUT							
Power Factor).9			
Phase Configuration	1Ph + N + PE (Hardwire)						
Nominal Voltage	220VAC / 230VAC / 240VAC						
Wave Form	Pure Sine Wave						
Total Harmonic Distortion at 100% linear load	<3%						
at 100% non-linear load	<5% 50Hz or 60Hz (adjustable)						
Frequency Frequency Tolerance(free running)	SUHZ OF OUHZ (adjustable) ±0.1 %						
Frequency Synchronized Range	±0.1 70 ±1Hz:±3Hz (selectable)						
Static Voltage Regulation (0%-100% load)	±102; ±372 (54804016) <1%						
Crest Factor	3						
Transfer Time				sec			
	Up to 10min. @100%~120%						
Overload	Up to 1min. @120%~150%						
	Transfer to bypass @ >150%						
Total Efficiency	up to	90%		o 91%	up to	93%	
Greenmode efficiency				77%			
Outlets		External S	ocket Box (2 pcs SCHU	KO, 4 pcs IEC C13 Outle	ets) Optional		
BATTERY				1 1 1 1 1 1 1			
Type Deebarge Time	Maintenance-free lead acid batteries						
Recharge Time	4-6h up to 90% 192VDC for 16 pcs						
Voltage	240VDC				240VDC for 20 pcs		
	00 10V D				(20 pcs 12V E	Batteries) or	
Quantity per string	20 pcs 12V Batteries				(16 pcs 12V Batteries)**		
Internal batteries	20 pcs 12V 4.5Ah (interi	nal battery version only)			N/A		
Built in max. Charge Current		, , ,	6A		4	٨	
Cold Start	Present 40						
DISPLAY				Joent			
	Line Mode, Backup Mode, ECO Mode, Bypass Supply, Battery Low, Battery Bad/Disconnect, Overload and						
LED + LCD Display	Transferring with Interruption & UPS Fault						
LCD display	Input Voltage, Input Frequency, Output Voltage, Output Current, Output Frequency, Load Percentage, Battery Voltage & Inner Temperature,						
Self Diagnostics	Upon Power-on, Front Panel Setting & Software Control, 24-hour routine checking						
Audible and Visual Alarms	Line Failure, Battery Low, Transfer to Bypass, System Fault Conditions						
PROTECTION							
Overload Protection Short Circuit Protection	Bypass transfer time is calculated by simulating a temperature related model of a fuse Acts as the ideal current source during the short circuit time						
Other Protection	Acts as the local current source during the short circuit time						
COMMUNICATION	Against excessive (near, voltage, current) intense battery discharge						
Interface (Communication ports)		Standard RS2	32 port and optional RS	485 Internal SNMP Dr	v Contact Cards		
ENVIRONMENT		otandara Hoza					
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				<60	dB	
Protection Class			IF	° 20			
PHYSICAL SPECIFICATIONS (tower position)			0//	001		1	
Net Weight (power module)		kg	26kg	28kg	36	кд	
Net Weight (with internal batteries)	55 440x680		85kg with 9Ah battery)x132 (3U)	440x720x		
Dimensions (mm) (WxDxH)-power module (Rack) Dimensions(mm) (WxDxH)- w/battery vers. (Rack)			440X680	- (30)	44UX/2U>	(220 (30)	
STANDARDS	440x680x176 (4U)						
Standards	EN62040-1-1 [safety]; EN62040-2 [EMC];EN62040-3[performance]; EN60950-1						
ACCESSORIES							
	Internal&External SNMP, Dry Contact Board, External Manual Bypass, Rail Kit, External Battery Connection Cable,						
			Socket Box, External A				
** Availability to use 16pcs 12V batteries per string	if load is less than 85%						