













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



TECHNICAL SPECIFICATIONS

ODEL	DSPMP-1105	DSPMP-1106	DSPMP-1110	DSPMP-3110	DSPMP-3115	DSPMP-3120	
ower (kVA)	5 4.5	5.4	10	10	15	20	
PUT	4,0	3,4	7	7	13,3	10	
ase Configuration	1Ph + N + PE (Hardwire) 3Ph + N + PE (Hardwire)						
ominal Voltage	220VAC/230VAC/240VAC				380VAC/400VAC/415VAC		
nimum Voltage (at Half load)	160VAC				277VAC		
nimum Voltage (at Full load)	180VAC			312VAC			
ximum Voltage	280VAC 485VAC						
equency	45-65 Hz						
wer Factor DTPUT			0.99		. 0.	95	
wer Factor),9			
ase Configuration			1Ph + N + F	PE (Hardwire)			
ominal Voltage	1F11+ N + F E (Haf UMIE) 220VAC / 230VAC / 240VAC						
ave Form	Pure Sine Wave						
tal Harmonic Distortion at 100% linear load	<3%						
at 100% non-linear load	<5%						
equency	50Hz or 60Hz (adjustable)						
equency Tolerance(free running)	±0,1 %						
equency Synchronized Range				(selectable)			
atic Voltage Regulation (0%-100% load)				1%			
est Factor				3			
ansfer Time	0sec						
Overload	Up to 10min. @100%~120% Up to 1min. @120%~150%						
				(0120%~150% /pass (0 >150%			
tal Efficiency	up to	000/	Transfer to by	pass @ >150% o 91%	up to	020/	
reenmode efficiency	up to	7 0 70	up i	77%	up to	7370	
ıtlets		External	Socket Box (2 pcs SCHU	KO 4 ncs IEC C13 Outle	ts) Ontional		
ATTERY							
pe			Maintenance-free	lead acid batteries			
echarge Time				p to 90%			
oltage	2/0VPC 192VDC for 16 pcs						
ntage					240VDC for 20 pcs (20 pcs 12V Batteries) or		
uantity per string	20 pcs 12V Batteries						
ternal batteries						Batteries)**	
uilt in max. Charge Current	20 pcs 12V 4.5Ah (internal battery version only) N/A					Λ	
old Start	1.6A Present						
SPLAY							
	Line Mode, Backup Mode, ECO Mode, Bypass Supply, Battery Low, Battery Bad/Disconnect, Overload and						
ED + LCD Display	Transferring with Interruption & UPS Fault						
CD display	Input Voltage, Input Frequency, Output Voltage, Output Current, Output Frequency, Load Percentage, Battery Voltage & Inner Temperati						
elf Diagnostics	Upon Power-on, Front Panel Setting & Software Control, 24-hour routine checking						
idible and Visual Alarms		Line Failu	ire, Battery Low, Transfei	to Bypass, System Fau	lt Conditions	,	
ROTECTION							
verload Protection			me is calculated by simu				
nort Circuit Protection			as the ideal current sour				
her Protection MMUNICATION		Against	t excessive (heat,voltage,	current) intense battery	discharge		
terface (Communication ports)		Ctandard DC	232 port and optional RS	495 Internal CNIMD Dr.	Contact Cards		
VVIRONMENT		CA DIBDIIBIC	232 port and optional R3	400, IIILEITIAL SINIMP, DIY	Contact Cards		
perating Temperature	0 °C + 40 °C						
roposed Temp. to extend battery life	0 € + 40 € 20 - 25 ° € €						
umidity	up to 95% [non-condensing]						
idible Noise at 1 m) dB	
otection Class	IP 20						
otection Class HYSICAL SPECIFICATIONS (tower position)							
et Weight (power module)		ikg	26kg	28kg	36	kg	
et Weight (with internal batteries)		ikg		-		-	
mensions(mm) (HxWxD)-power module		8x680	440x1	32x680	440x2	20x720	
mensions(mm) (HxWxD)- w/battery vers.	440x1	76x680		-		-	
ANDARDS		EN1/00/0 : :	(() ENLOQUO O (=)	2) EN (20 (0 2)) EN(00E0 4		
andards	EN62040-1-1 (safety); EN62040-2 (EMC); EN62040-3 (performance); EN60950-1						
CCESSORIES	Internal & External SNMP, Dry Contact Board, External Manual Bypass, Rail Kit, External Battery Connection Cable,						
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