













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) ower (kW)	5 4.5	5.4	10	10	15 13.5	20	
ower (kw) IPUT	4.5	5.4	9	9	13.5	18	
nase Configuration		1Ph + N + PE (Hardwi	ral		3Ph + N + PE (Hardwire	1	
ominal Voltage	220VAC/230VAC/240VAC 380VAC/4				380VAC/400VAC/415VAC)	
inimum Voltage (at Half load)	160VAC				277VAC		
inimum Voltage (at Full load)	180VAC				312VAC		
aximum Voltage	280VAC 485VAC 485VAC						
requency			45-	65 Hz			
ower Factor			0.99		0	95	
JTPUT				2.0			
ower Factor hase Configuration	0.9 1Ph + N + PE (Hardwire)						
ominal Voltage	1F11+1N+FE_(INDIGNUTE) 220VAC / 230VAC / 240VAC						
ave Form	ZZOVAC / ZSOVAC / Z40VAC Pure Sine Wave						
stal Harmonic Distortion at 100% linear load	rule sine wave						
at 100% non-linear load							
equency	50Hz or 60Hz [adjustable]						
equency Tolerance(free running)	±0.1 %						
requency Synchronized Range	±1Hz; ±3Hz (selectable)						
atic Voltage Regulation (0%-100% load)	<1%						
rest Factor				3			
ansfer Time	0sec						
Overload	Up to 10min. @100%-120%						
	Up to 1min. @120%~150% Transfer to bypass @ >150%						
1 LECC :		000/	Iransfer to by	/pass (a) > 15U%	1	000/	
stal Efficiency	up ti	o 90%		o 91% 97%	up to	93%	
reenmode efficiency utlets		Evtornal	Socket Box (2 pcs SCHU	KO Apos IEC C12 Outlo	tcl Ontional		
ATTERY		External	. Sucket Bux (2 pcs Schu	NO, 4 pcs iec c is outle	ts) Optional		
pe			Maintenance-free	lead acid batteries			
echarge Time				p to 90%			
	240VDC				192VDC	for 16 pcs	
ltage	Z4UVDC				240VDC	for 20 pcs	
uantity per string	20 pcs 12V Batteries					Batteries) or	
7.1						Batteries)**	
ternal batteries	20 pcs 12V 4.5Ah (inter	rnal battery version only)		1	N/A		
uilt in max. Charge Current			1.6A		1	.А	
old Start			Pre	esent			
SPLAY							
ED + LCD Display	Line Mode, Backup Mode, ECO Mode, Bypass Supply, Battery Low, Battery Bad/Disconnect, Overload and						
1 /	Transferring with Interruption & UPS Fault						
CD display	Input Voltage, Input Frequency, Output Voltage, Output Current, Output Frequency, Load Percentage, Battery Voltage & Inner Temperatur						
elf Diagnostics	Upon Power-on, Front Panel Setting & Software Control, 24-hour routine checking Line Failure, Battery Low, Transfer to Bypass, System Fault Conditions						
Idible and Visual Alarms		Line Faill	ire, Battery Low, Transfer	to Bypass, System Fau	lt Conditions		
verload Protection		Dunasa transfer t	ima is calculated by simu	lating a tamanaratura ra	lated model of a fuse		
nort 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						
her Protection			t excessive (heat,voltage,				
DMMUNICATION		7 (941110	r excessive (meat, vottage,	odirent, intende battery	albanar ge		
terface (Communication ports)		Standard RS	232 port and optional RS	485. Internal SNMP. Dr	/ Contact Cards		
NVIRONMENT							
perating Temperature	0 °C + 40 °C 20 - 25 °C						
roposed Temp. to extend battery life	20 - 25 °C						
umidity	0 - 95% (non-condensing)						
udible Noise at 1 m	<50 dB <60 dB						
otection Class	IP 20						
HYSICAL SPECIFICATIONS (tower position)	01	El	2/1	201	0.7	l	
et Weight (power module)		5kg	26kg	28kg	36	kg	
et Weight (with internal batteries) mensions (mm) (WxDxH)-power module (Rack)		5kg 0x88 (2U)	85kg with 9Ah battery	1 - 1x132 (3U)	//0700	- x220 (5U)	
mensions (mm) (WxDxH)-power module (Rack) mensions(mm) (WxDxH)- w/battery vers. (Rack)		0x88 (20) 0x176 (4U)	4400000	- IJZ (JU)	44UX/ZU	XZZU [JU]	
ANDARDS	44UX00U	JA 1 / U (4U)		·			
andards		FN62040-1-1	(safety); EN62040-2 (EM	Cl-EN62040-3(performa	nce): FN60950-1		
CESSORIES		211020-70 1 1	,,,, L. 1020-10 Z (LIM		,		
				1.D D 31.165. 1		. 0.11	
	Internal8	kExternal SNMP, Dry C	ontact Board, External M	anual Bypass, Rail Kit, I	External Battery Connec	ion Cable,	