













## **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

MODEL	DSPMP-1105	DSPMP-1106	DSPMP-1110	DSPMP-3110	DSPMP-3115	DSPMP-3120
ower (kVA)	<u>5</u> 4.5	5.4	10	10	15	20
PUT	4,3	3,4	7	7	15,5	10
ase Configuration	1Ph + N + PE (Hardwire) 3Ph + N + PE (Hardwire)					
minal Voltage	220VAC/230VAC/240VAC			380VAC/400VAC/415VAC		
nimum Voltage (at Half load)	160VAC			277VAC		
nimum Voltage (at Full load)	180VAC			312VAC		
aximum Voltage equency	280VAC 485VAC					
ower Factor	45-65 Hz					
wer Factor JTPUT			0.77		<u> </u>	,,,,
wer Factor				),9		
nase Configuration	1Ph + N + PE (Hardwire)					
ominal Voltage ave Form	220VAC / 230VAC / 240VAC Pure Sine Wave					
ave Form otal Harmonic Distortion at 100% linear load	Pure Sine wave					
at 100% non-linear load						
requency	50Hz or 60Hz [adjustable]					
requency Tolerance(free running)	±0,1 %					
requency Synchronized Range	±1Hz; ±3Hz (selectable)					
tatic Voltage Regulation (0%-100% load)			<	1%		
rest Factor				3		
Transfer Time	0sec Up to 10min. @100%~120%					
Overload	Up to Tumin, @100%-120% Up to 1min, @120%-150%					
				/pass @ >150%		
otal Efficiency	up to	90%	up t	0 91%	up to	93%
reenmode efficiency	≥97%					
utlets		External	l Socket Box (2 pcs SCHU	KO, 4 pcs IEC C13 Outle	ts) Optional	
ATTERY			Maiatanana fara	land and basening		
ype echarge Time				lead acid batteries		
	4-6h up to 90% 192VDC for 16 pcs					
oltage	240VDC					
luantity per string	20 pcs 12V Batteries				240VDC for 20 pcs (20 pcs 12V Batteries) or	
, ,	'				[16 pcs 12V Batteries]**	
nternal batteries uilt in max. Charge Current	20 pcs 12V 4.5Ah (internal battery version only) 20 pcs 7Ah / 9Ah				N/A ·	
old Start	1.6A Present					A
ISPLAY				Sent		
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 Temper					
elf Diagnostics udible and Visual Alarms	Upon Power-on, Front Panel Setting & Software Control, 24-hour routine checking Line Failure. Battery Low. Transfer to Byoass. System Fault Conditions					
ROTECTION		Line Faill	ire, Battery Low, Transfei	to Bypass, System Fau	lt Conditions	
verload Protection		Rynass transfer t	ime is calculated by simu	lating a temperature re	lated model of a fuse	
hort 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					
ther Protection			t excessive (heat, voltage,			
OMMUNICATION						
terface (Communication ports)		Standard RS	5232 port and optional RS	485, Internal SNMP, Dr	y Contact Cards	
NVIRONMENT	0.00 .70.00					
perating Temperature roposed Temp. to extend battery life	0 °C + 40 °C					
umidity	20 - 25 °C up to 95% (non-condensing)					
udible Noise at 1 m	450 dB					ldB
rotection Class	IP 20					
HYSICAL SPECIFICATIONS (tower position)						
et Weight (power module)		bkg	26kg	28kg	36	kg
et Weight (with internal batteries)		ōkg	85kg with 9Ah battery	22/00	//0.00	- 20x720
imensions(mm) (HxWxD)-power module imensions(mm) (HxWxD)- w/battery vers.		38x680 76x680	44UX 1	32x680	44UXZ	ZUX / ZU
TANDARDS	44UX1	/ UXUUU		-		
andards		FN62040-1-1	(safety); EN62040-2 (EM	Cl-EN62040-3[performa	ncel: FN60950-1	
CCESSORIES	THE CONTROL OF THE CO					
	Internal&		Contact Board, External M			ion Cable,
		Eutopp	al Caalest Day Eutarnal A	dditional Charging Boar	d Coffiniara	