

DSP Multipower Convertible Series

On-Line "Double Conversion" Technology 1 Phase in / 1 Phase out 5kVA to 10kVA, 3 Phase in / 1 Phase out 10kVA to 20 kVA (Tower & Rack Convertible)

- ➤ 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



(Ups Looking Battery Cabinet)

DSP Multipower Convertible Series 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) INPUT	4,5	5,4	9	9	13,5	18	
Phase Configuration		1Ph + N + PE (Hardwire	\		3Ph + N + PE (Hardwire	1	
Nominal Voltage	220VAC/230VAC/240VAC				380VAC/400VAC/415VAC		
Minimum Voltage (at Half load)	160VAC			277VAC			
Minimum Voltage (at Full load)	180VAC			312VAC			
Maximum Voltage	280VAC 4						
Frequency Power Factor OUTPUT	45-65 Hz						
Power Factor	0.99 0.95						
OUTPUT	09						
Power Factor	0,9 IPh + N + PE (Hardwire)						
Phase Configuration Nominal Voltage	11/11+1N+1*C (nd1/WHP) 220VAC / 230VAC / 240VAC						
Wave Form	Pure Sine Wave						
Total Harmonic Distortion at 100% linear load	Tale Sine Water						
at 100% non-linear load							
Frequency	50Hz or 60Hz (adjustable)						
Frequency Tolerance(free running)	±0,1 %						
Frequency Synchronized Range	±1Hz; ±3Hz (selectable)						
Static Voltage Regulation (0%-100% load)	<1%						
Crest Factor	3						
Transfer Time	Osec						
Disastered	Up to 10min. @100%~120%						
Overload	Up to 1min. @120%-150% Transfer to bypass @ >150%						
Total Efficiency	up to	00%		pass (a) >150% o 91%	up to	o 93%	
Greenmode efficiency	ap to	70%		97%	ир к	7 7 3 7 6	
Outlets		External S		KO, 4 pcs IEC C13 Outlet	's) Optional		
BATTERY							
Гуре	Maintenance-free lead acid batteries						
Recharge Time	4-6h up to 90%						
Voltage	240VDC 192VDC for 16 pcs						
					240VDC for 20 pcs (20 pcs 12V Batteries) or		
Quantity per string	20 pcs 12V Batteries					Batteries)**	
Internal batteries	20 pcs 12V 4.5Ah (internal battery version only)			N.	/A	Datteriesj	
Built in max. Charge Current	1.6A				4A		
Cold Start			Pre	sent			
DISPLAY							
LED + LCD Display	Line Mode, Backup Mode, ECO Mode, Bypass Supply, Battery Low, Battery Bad/Disconnect, Overload and						
_CD display	Transferring with Interruption & UPS Fault Input Voltage, Input Frequency, Output Voltage, Output Current, Output Frequency, Load Percentage, Battery Voltage & Inner Temperatur						
Self Diagnostics	Input voltage, input Frequency. Output voltage, output current, output Frequency, Load Percentage, Battery Voltage & Inher Temperatu Upon Power-on, Front Panel Setting & Software Control, 24-hour routine checking						
Audible and Visual Alarms	Opon rower-on, ronk rainer setting of somware control, 24-not routine checking Line Failure, Battery Low, Transfer to Bypass, System Fault Conditions						
PROTECTION		Elite i dilai	e, battery 2011, mansier	to bypass, bysterii i aait	Conditions		
Overload Protection		Bypass transfer tin	ne is calculated by simu	lating a temperature rela	ited model of a fuse		
Short Circuit Protection	Acts as the ideal current source during the short circuit time						
Other Protection	Against excessive (heat,voltage,current) intense battery discharge						
COMMUNICATION							
nterface (Communication ports)		Standard RS2	32 port and optional RS	485, Internal SNMP, Dry	Contact Cards		
ENVIRONMENT	1		0.0	40 °C			
Operating Temperature Proposed Temp. to extend battery life	0 °C + 40 °C 20 - 25 °C						
Humidity	up to 95% (non-condensing)						
Audible Noise at 1 m	<50 dB			or condensing /	<60	O dB	
Protection Class	IP 20						
PHYSICAL SPECIFICATIONS (tower position)							
Net Weight (power module)	25		26kg	28kg	36	kg	
Net Weight (with internal batteries)	55	rg		-		-	
Dimensions(mm) (HxWxD)-power module	440x8		440x1	32x680	440x2	20x720	
Dimensions(mm) (HxWxD)- w/battery vers.	440x176x680						
STANDARDS		EN1/20/01:::	C		1 FN1/ 00F0 1		
Standards ACCESORIES		EN62U4U-I-I (sa	rety); EN62040-2 (EM0	1);EN62040-3(performa	incej; EN60950-i		
ACCESORIES	InternalGExternal SNMP, Dry Contact Board, External Manual Bypass, Rail Kit, External Battery Connection Cable,						
	I I I I I I I I I I I I I I I I I I I	External Sochet Box External Additional Charging Board Software					
** Availability to use 16pcs 12V batteries per string	if load is less than 85%	LACCITION	DOCKEL DOX, EXTERNAL ME	idiaonal Charging Doald	DOLLARGIC		