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inform

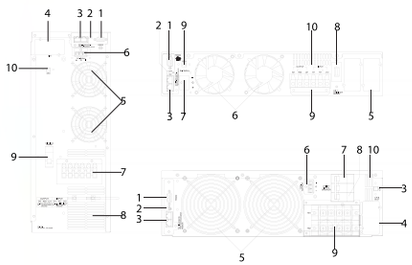
DSP Multipower Series

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

(Ups Looking Battery Cabinet)

- On-line 'double conversion' technology
- Real Digital Signal Processor (DSP) Controller
- Parallel redundant operation up to 4 units
- Input Power Factor Correction PFC(>0,99)
- Low total harmonic distortion (THD) level
- Convertible display helps to use both for tower and rack applications
- Transformerless Design
- 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

Rear Panel Views



1.RS232 Port 2.Terminal Resistor for Parallel function 3.CAN Bus Connection Port for Parallel System 4.Customer Options Slot 1 5.Customer Options Slot 2 6.Cooling Fan 7.External Battery Connector 8.Utility Input Breaker CB1 9.Input/Output Terminal Block 10.EPO Emergency Power Off: Short to enable the function 11.Air Ventilation Hole

Accessories

Communication

- Internal SNMP Slot Card
- External SNMP Adapter
  SNMP Adapter Net Agent MiniDP522
  SNMP Adapter CS121BL
- RS485 Board
- USB Board
- Dry Contact Board

Battery Cabinets

- MPBC (20x12v 7ah/9ah/12ah)
- MPBC-V (20x12v 7ah/9ah) (ups looking)

Other

- Additional Charging Board (1000W)
- External Manual Bypass Switch
  MTBS60-12K
  MTBS120-24K
  MTBS200-40K
- External Socket Box
  SocketBox-DSPMP (2pcs Schuko, 4pcs IEC Outlets)
- Rail kit for rack type
- External battery connection cables

*Built in parallel kit on the standard ups.

Package Content

- User Manual
- RS232 Communication Cable
- RJ45 Parallel Connection Cable
- Accessories for Rack/Tower applications
- UPSMAN Software

DSP Multipower Specifications

TYPE	DSPMP-1105	DSPMP-1106	DSPMP-1110	DSPMP-3110
Power (kVA)	5	6	10	10
INPUT				
Phase Configuration	1Ph + N + PE			3Ph + N + PE
Nominal Voltage	220V/230V			380V/400V
Minimum Voltage	160V			277V
Maximum Voltage	280V			485V
Frequency	45-65 Hz			
Power Factor	0,99			
OUTPUT				
Power Factor	0,8			
Phase Configuration	1Ph + N + PE			
Nominal Voltage	220V / 230V (Adjustable)			220V / 230V
Nominal Current at 220V	23A	27A	45,5A	
Wave Form	Pure Sine Wave			
Total Harmonic Distortion at 100% Linear Load	<3%			
at 100% Non-Linear Load	<5%			
Frequency	50Hz or 60Hz (Adjustable)			
Frequency Tolerance (Free Running)	±0,2 %			
Frequency Regulation	±1Hz; ±3Hz			
Static Voltage Regulation (0%-100% Load)	<1%			
Crest Factor	3:1			
Transfer Time	0sec			
Overload (On Mains At 110% Load)	2 min			
Overload (On Mains At 125% Load)	1 min			
Overload (On Mains at 150% Load)	30 sec			
Total Efficiency	≥92 %			
Greenmode Efficiency	≥97%			
Output Connection	Terminals			
Outlets (Optional)	External Socket Box (2 pcs SCHUKO, 4 pcs IEC Outlets)			
BATTERY				
Type	Maintenance-Free Lead Acid Batteries			
Recharge Time	4-6h up to 90%			
Voltage	240VDC			
Quantity Per String	20pcs			
Cold Start	Present			
DISPLAY				
LED + LCD Display	Line Mode, Back up Mode, Eco Mode, By pass Supply, Battery Low, Battery Bad/Disconnect, Overload, UPS Fault, Interruption during transfer			
LCD display	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load%, Battery Voltage, Internal Temperature			
Self Diagnostics	Upon Power On, Front Panel Setting and Through Software Control, 24h Routine Check			
PROTECTION				
Overload Protection	Inverter Supply: 105%-150% for 160 secods ~ 2 cycles before switching bypass. Bypass Supply:105%-200% for 500 secods ~ 8 cycles before stopping supply load.			
Short Circuit Protection	Switch Off Immediately			
Other Protection	Overheat, Battery Low			
COMMUNICATION				
Interface (Communication Ports)	Standard RS232 Port And Optional RS485, Internal SNMP, Dry Contact Cards			
Monitoring and Management Software	Standard			
ENVIRONMENT				
Operating Temperature	0 °C.... + 40 °C			
Proposed Temp. To Extend Battery Life	20 - 25 °C			
Humidity	Up To 90% (Non-Condensing)			
Audible Noise at 1 m	<50 dB			
Protection Class	IP 20			
PHYSICAL SPECIFICATIONS (Tower Position)				
Net Weight (Power Module)	25kg		26kg	28kg
Net Weight (With Internal Batteries)	55kg			
Dimensions (mm) (HxWxD) - Power Module	440x88x680		440x132x680	
Dimensions (mm) (HxWxD) - W/Battery Vers.	440x176x680			
STANDARDS				
Standards	EN62040-1-1 (Safety); EN62040-2 (EMC);EN62040-3(Performance); EN60950-1