ISO 9001: 2008
REGISTERED FIRM
Certificate no. 20154230

MPOWER UPS

DSP FLEXIPOWER SERIES

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10 years of uninterruptible power

DSP FLEXIPOWER SERIES

1 PHASE IN – 1 PHASE OUT 5-10kVA
3 PHASE IN – 1 PHASE OUT 10kVA

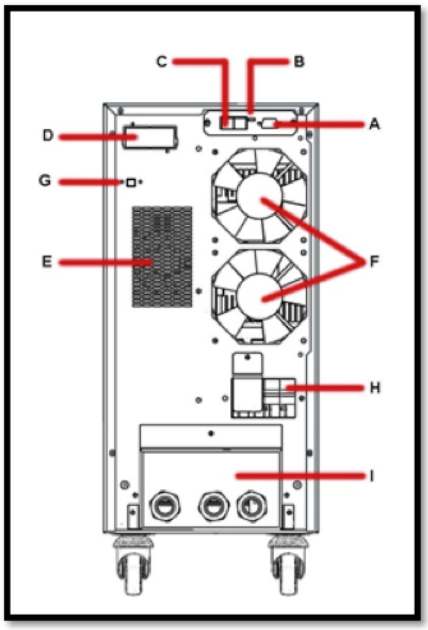
- On-Line Double Conversion Technology
- Real Digital Signal Processor (DSP) Controller
- Power factor correction
- High output power factor
- Parallel redundant operation up to 4 units (excluding 3kVA)
- Low total harmonic distortion (THD) level
- Transformerless Design
- High Performance with the PWM 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
- Emergency shut down control through EPO
- Energy Saving Mode (Ecomode)
- Extended back up time with external battery cabinet
- RS232 Communication Port & Management Software
- Internal SNMP, Dry contact and RS485 card options

General

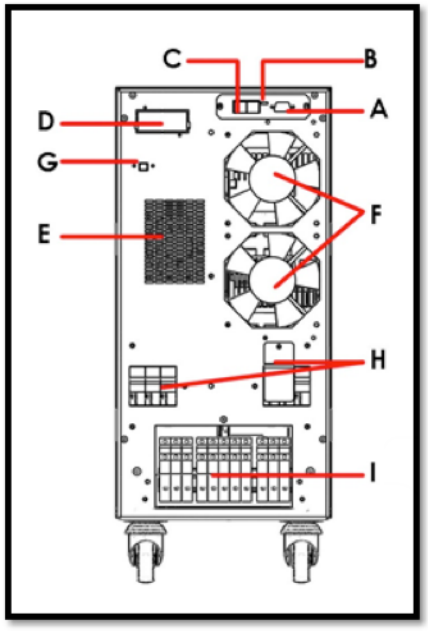
Designed and built to protect your electronic equipment from power fluctuations, this UPS is your insurance for a reliable, clean and stable supply.

The multi-functional LCD/LED panel displays various readings including voltage, load status and inner cabinet temperature. Fully programmable from the display, the UPS has ECO and Normal modes, making it suitable for a wide variety of applications.

DSP FLEXIPOWER SERIES



1Phase Input / 1Phase Output DSP Flexi Power



3Phase Input / 1Phase Output DSP Flexi Power

Rear Panel

A RS-232 Port (CN1)
B Terminal Resistor for Parallel function
C CAN Bus Connection Port for Parallel System (PAR1/CN2.1 – PAR2/CN2.2)
D Communication Slot
E Air Vent
F Cooling Fan
G EPO (Emergency Power Off)
H Input-Output-Manual Bypass Circuit Breakers
I Terminal Cover & Terminals

Communication

The RS232 port, standard on the UPS, allows for remote monitoring of the UPS using the bundled software. Further optional interface cards allow application defined UPS monitoring.

Optional Interfaces

- RSE(RS485 and EPO) Card
- USE(USB and EPO) Card
- DCE(Dry Contact and EPO) Card
- SNMP/WEB Card
- NetAgent II Card

These cards may not be used simultaneously.

Specification

MODEL	FP1103	FP1105	FP1106	FP1108	FP1110	FP3110
Power (kVA)	3	5	6	8	10	10
Power (kW)	2.4	4.5	5.4	7.2	9	9
INPUT						
Phase Configuration	1Ph + N + PE					3Ph + N + PE
Nominal Voltage	220V/230/240V					380V/400V/415V
Minimum Voltage	160	180				320V
Maximum Voltage	288	280				485V
Frequency	± 5Hz	45-65 Hz				
Power Factor	0.99					
OUTPUT						
Power Factor	0.8	0.9				
Phase Configuration	1Ph + N + PE					
Nominal Voltage	220V / 230 / 240V (adjustable)					
Wave Form	Pure Sine Wave					
Total Harmonic Distortion at 100% linear load	<3%					
Frequency	50Hz or 60Hz (adjustable)					
Frequency Tolerance (free running)	±0,2 %					
Static Voltage Regulation (0%-100% load)	<1%					
Crest Factor	3:1					
Transfer Time	0sec					
Overload	60 min @ (100%-110%)	2min @ (100%-120%)				
	10 min @ (110%-125%)	30sec @ (120%-150%)				
	Transfers to Bypass @150%					
Total Efficiency	≥90%	≥92%				
BATTERY						
Type	Maintenance-free lead acid batteries					
Recharge Time (for Internal Battery)	4-6h up to 90%					
Quantity per String	6pcs 12V Batteries	20 pcs 12V Batteries				
Voltage	72VDC	240VDC				
Internal Batteries (Optional)	7Ah or 9Ah					
Cold Start	Yes					
DISPLAY						
LED + LCD Display	Line Mode, Back up Mode, Eco Mode, Bypass Supply, Battery Low, Battery Fault/Disconnected, Overload, UPS Fault, Interruption during transfer					
LCD Display	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load %, Battery Voltage, Internal Temperature					
Self Diagnostics	Power on self test and continuous self diagnostics					
PROTECTION						
Overload Protection	Transfers to bypass on overload					
Short Circuit Protection	Current limits and internal fuses					
COMMUNICATION						
Interface (Communication ports)	Standard RS232 port and optional RS485, Internal SNMP, Volt free relay contact card					
ENVIRONMENT						
Operating Temperature	0°C - 40°C					
Proposed Temp. to extend battery life	20°C - 25°C					
Humidity	up to 90% (non-condensing)					
Audible Noise at 1 m	<50 dB					<52 dB
Protection Class	IP20					
PHYSICAL SPECIFICATIONS						
Dimensions(mm) (HxWxD)	449x226x454	585x255x741				
Weight - without battery (kg)	19	30		38		45
STANDARDS						
Standards	EN62040-1-1 (Safety); EN62040-2 (EMC)					
ACCESSORIES						
Optional	Internal or External SNMP, Relay Contact Card, Monitoring and Management Software, Internal Battery Holder Apparatus, Additional Charging Set					