

MSI Series

1kVA ~ 3kVA

PF: 0.9

Application:

All kinds of ADP Machines



Features:

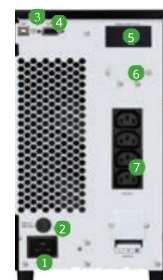
- True Online Double-Conversion Technology (VFI-SS-111)
- DSP Technology Guarantees High Performance
- Pure Sine Wave Output
- IGBT Based both Rectifier & Inverter
- Wide Input Voltage Range (110V~300V AC)
- Input Power Factor Correction ≥ 0.99
- 3-Stage Charging for Optimized Battery Performance
- Output Power Factor unity (0.9)
- User Friendly LCD for Monitoring
- Supports Frequency Conversion Mode
- ECO mode operation for energy saving
- Emergency power off function (EPO)
- Fan Speed Regulation as per Load
- Automatic Static Bypass Switch
- Cold Start & Soft Start Feature
- Auto Restart Function
- Self-Testing while UPS Startup
- Inbuilt Surge Protection
- Generator Input Compatible
- IoT Compatible with wifi/Bluetooth Monitoring

Rear Panel

1. AC input
2. Input circuit breaker
3. USB communication port
4. RS-232 communication port
5. SNMP intelligent slot
6. External battery connection (only available for L model)
7. Output receptacles



1kVA



2/3kVA

Internal Battery Model		MSI1101B2	MSI1102B4	MSI1103B6
External Battery Model		MSI1101L3	MSI1102L6	MSI1103L6
Phase		Single phase		
Capcacity		1000VA/900W	2000VA/1800W	3000VA/2700W
INPUT				
Nominal Input Voltage		200/208V/220V/230V/240V AC (P+N+PE)		
Input Voltage Range		110~300V AC (Load Dependent)		
Frequency Range		40~70Hz		
Power Factor		≧ 0.99		
OUTPUT				
Output Voltage (configurable)		200/208V/220V/230V/240V AC (P+N+PE)		
Voltage Regulation		± 1 %		
Frequency Range (Synchronized Range)		Auto Sensing 50/60 Hz ± 1~10% Sync Mode (Configurable), 50/60 Hz ± 0.1% Battery Mode		
Power factor		0.9		
Crest Factor		3 : 1		
Harmonic Distortion		≦ 2 % THD (Linear Load) ≦ 5 % THD (Non-linear Load)		
Transfer Time	AC Mode to Battery Mode	Zero		
	Bypass to Inverter	3ms (Typical)		
Waveform		Pure Sine wave		
EFFICIENCY				
Online Efficiency		92%		
ECO Mode Efficiency		99%		
BATTERY				
Internal Battery Model	Battery (SMF VRLA)	12V/9Ah	12V/9Ah	12V/9Ah
	Numbers	2	4	6
	Typical Recharge Time	4-5 Hours to 90% of full Capacity		
	Charging Current (max.)	1/2 A		
	Charging Voltage	27.4VDC ± 1%	54.7 VDC ±1%	82.1 VDC ±1%
External Battery Model	Battery Type	SMF VRLA/Lithium-ion		
	Numbers	3	6	6
	Charging Current (max.)	6A Standard; 10A Optional		
	Charging Voltage	41.0VDC ± 1%	82.1 VDC ±1%	82.1 VDC ±1%
SYSTEM FEATURES				
IP Protection		IP20		
LCD		Input Voltage/Frequency, Output Voltage/Frequency, Load Percentage, Battery Voltage, Load/Battery Barograph, Temperature, Load VA/W, Operating mode & Fault mode		
LED Indication		Line Mode, Battery Mode, ECO Mode, Bypass Mode, Battery Low, Overload & UPS Fault		
Alarm/Protection		Short Circuit, Input Under/Over Voltage, Over Temperature, Output Over Load, DC Bus Under/Over Voltage, Battery low, Input Surge protection		
PHYSICAL				
Internal Battery Model	Dimension, W x D x H (mm)	144 x 293 x 209	191 x 460 x 337	
	Net Weight (kgs)	9.1	19.5	24.5
External Battery Model	Dimension, W x D x H (mm)	144 x 293 x 209	191 x 460 x 337	
	Net Weight (kgs)	4.1	10.3	10.9
ENVIRONMENT				
Humidity		0-95 % RH @ 0- 50°C (Non-condensing)		
Noise Level		Less than 50dBA @ 1 Meter		
STANDARDS				
Quality		ISO 90001, ISO 14001, ISO 27001, ISO 45001, ISO 50001, BIS, RoHS, FCC		
Safety/Performance		IEC/EN62040-1; Conformity to IEC / EN, IEC/EN62040-2; IEC/EN62040-3, Complying to CE		
MANAGEMENT				
Standard		RS-232/USB/EPO		
Optional		SNMP/RS485/Dry contact/Modbus/IoT		

* Product specifications are subject to change without further notice.

Best Power Equipments India Pvt. Ltd.

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▶ Technical Specifications of Battery Pack

MODEL	BPMSIK6N9	BPMSIK12N9	BPMSIK18N9
			
Supported UPS	1kVA	2/3kVA	2/3kVA
Battery Type	12V/9 Ah	12V/9 Ah	12V/9 Ah
Battery Number	6 pcs	12 pcs	18 pcs
Battery Voltage	24VDC	72 VDC	72 VDC
Dimension(WxDxH)	190 x 455 x 200	455 x 190 x 370	455 x 190 x 370
Net Weight (kgs)	20	40	67.5

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