

MSI Series

1~3kVA

Application:

For All kinds of ADP Machine



Control LCD Panel



Features:

- True double-conversion topology
- Output power factor 0.9
- Wide input voltage (110 V – 300 V)
- Converter mode available
- ECO mode for energy saving
- Generator compatible
- Smart SNMP works well with either USB or RS-232 together

Rear Panel

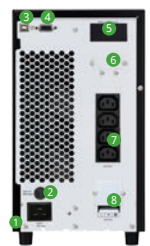
1. AC input
2. Input circuit breaker
3. USB communication port
4. RS-232 communication port
5. SNMP intelligent slot
6. External battery connection
7. Output receptacles
8. Output terminal



1 kVA



2 kVA



3 kVA

▶ Technical Specifications of MSI Series 1~3KVA

STANDARD MODEL		MSI1101B2	MSI1102B4	MSI1103B6
LONG-RUN MODEL		MSI1101L3	MSI1102L6	MSI1103L6
PHASE		Single phase with ground		
CAPACITY *		1000 VA / 900 W	2000 VA / 1800 W	3000 VA / 2700 W
INPUT				
Nominal Voltage		100/110/115/120/127VAC or 200/208/220/230/240VAC		
Input Voltage Range		55-150 VAC or 110-300 VAC (Based on load at 50%) 85-140VAC or 160-280VAC (Based on load at 100%)		
Frequency Range		40 Hz ~ 70 Hz		
Power Factor		≥ 0.99 @ Nominall Voltage (100% load)		
OUTPUT				
Output Voltage		100/110/115/120/127VAC or 200/208/220/230/240VAC		
Voltage Regulation		± 1 %		
Frequency Range (Synchronized Range)		47~ 53 Hz or 57 ~ 63 Hz		
Frequency Range (Batt. Mode)		50 Hz ± 0.25 Hz or 60Hz ± 0.3 Hz		
Current Crest Ratio		3:1		
Harmonic Distortion		≤ 3 % THD (Linear Load) ≤ 6 % THD (Non-linear Load)		
Transfer Time	AC Mode to Battery Mode	Zero		
	Inverter to Bypass	4 ms (Typical)		
Waveform (Batt. Mode)		Pure Sinewave		
EFFICIENCY				
AC Mode		88%	89%	90%
Battery Mode		83%	87%	88%
BATTERY				
Standard Model	Battery Type	12V/9Ah	12V/9Ah	12V/9Ah
	Numbers	2	4	6
	Typical Recharge Time	4 hours recover to 90% capacity		
	Charging Current (max.)	1 A		
	Charging Voltage	27.4VDC ± 1%	54.7 VDC ±1%	82.1 VDC ±1%
Long-run Model **	Battery Type	Depending on the capacity of external batteries		
	Numbers	3	6	6
	Charging Current (max.)	1A/2A/4A/6A (Adjustable)		
	Charging Voltage	41.0VDC ± 1%	82.1VDC ±1%	82.1 VDC ±1%
INDICATORS				
LCD		Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators		
ALARM				
Battery Mode		Sounding every 4 seconds		
Low Battery		Sounding every second		
Overload		Sounding twice every second		
Fault		Continuously sounding		
PHYSICAL				
Standard Model	Dimension, D x W x H (mm)	282 x 145 x 220	397 x 145 x 220	421 x 190 x 318
	Net Weight (kgs)	9.8	17	27.6
Long-run Model **	Dimension, D x W x H (mm)	282 x 145 x 220	397 x 145 x 220	
	Net Weight (kgs)	4.1	6.8	7.4
ENVIRONMENT				
Humidity		20-90 % RH @ 0- 40°C (Non-condensing)		
Noise Level		Less than 50dB @ 1 Meter		
MANAGEMENT				
Smart RS-232 / USB		Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC		
Optional SNMP		Power management from SNMP manager and web browser		

*1-3KVA: Derate to 80% of capacity in Frequency converter mode and to 80% when the output voltage is adjusted to 100/200/208VAC.

*6-10KVA: Derate to 60% of capacity in Frequency converter mode and to 90% when the output voltage is adjusted to 208VAC.

**Long-run model is only available for 200/208/220/230/240VAC systems (200VAC system only available for 1-3KVA).

Product specifications are subject to change without further notice.

▶ Technical Specifications of Battery Pack

MODEL	BPMSI01K6N9	BPMSI0203K12N9	BPMSI0203K18N9
-------	-------------	----------------	----------------



Supported UPS	1K	3K	3K
Battery Type	12 V/9 Ah	12 V/9 Ah	12 V/9 Ah
Battery Number	6 pcs	12 pcs	18 pcs
Battery Voltage	24VDC	72 VDC	72 VDC
Dimension(DxWxH)	397 X 145 X 220	421 X 190 X 318	535 X 190 X 318
Net Weight (kgs)	20	40	67.5