## Modified sine-wave UPS/Inverter



### **Description:**

MSI Series UPS(inverter) use our own produced high quality toroidal transformer, making our UPS(inverter) with lower exciting current, lower static loss and higher efficiency. Its individual AVR function make your appliance work very smooth even if mains power is not stable.

#### **CPU** control

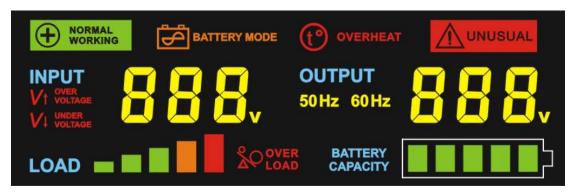
32-bit high speed CPU control, more accurate detection

#### **Toroidal transformer**

In-house high quality toroidal transformer, gives you more reliable UPS(inverter) with lower exciting current

#### LED graphic Humanistic and friendly interface

Input/output voltage and frequency, battery capacity, loading and etc can be showed on screen.



## Sensitive short circuit protection

When short circuit happens, UPS(inverter) will shut down and giving warning.

#### Individual charger

When main power comes back, battery will be recharged automatically even UPS(inverter) was shut off. Charging current has High&Low selection.

# Individual AVR

At mains mode, UPS(inverter) can use as Automatic Voltage Regulator.

Rated Capacity   S00VA   750VA   1000VA   1500VA   2000VA   Rated Power   300W   450W   600W   900W   1200W   1200W	Model		MSI-500	MSI-750	MSI-1000	MSI-1500	MSI-2000	
Transformer   C.R.G.O     Interface	Rated Capacity		500VA	750VA	1000VA	1500VA	2000VA	
Display Status	Rated Power		300W	450W	600W	900W	1200W	
Noting	Transformer		C.R.G.O					
Input	Interface		LED graphic					
Protection	Display Status		working & loading & battery					
Voltage	Innut	Voltage	100-280V/115-280V/157-280V/180-260V Optional					
Output         Frequency         50/60 Hz ± 0.5Hz, subject to the main           Wave form         Modified sine wave           Wave form         Modified sine wave           Ves           Urbit in Microscopics           Yes           Stattery low voltage         Yes           Battery         Over-charge, over-discharge, rever-sed polarity protection           Short circuit         Yes           Transfer Time         Storms         ≤ 10ms           Battery Voltage         12V DC         12V DC         12V DC         24V DC         24V DC         CAV DC<	input	Frequency	45~65 Hz					
Modified sine wave           Overload         Yes           High temperature         Yes           Output high/low voltage         Yes           Battery low voltage         Yes           Transfer Time         ≤ 10ms           Battery Voltage         12V DC         12	Output	Voltage	220Vac ±1% for inverter; 220Vac ±11% for regulator					
Yes           High temperature         Yes           Output high/low voltage         Yes           Battery low voltage         Yes           Battery         Over-charge, over-discharge, reversed polarity protection           Short circuit         Yes           Transfer Time         ≤ 10ms           Battery Voltage         12V DC         12V DC         12V DC         24V DC		Frequency	$50/60~{ m Hz}\pm0.5{ m Hz}$ , subject to the main					
High temperature         Yes           Output high/low voltage         Yes           Battery low voltage         Yes           Transfer Time         ≤ 10ms           Battery Voltage         12V DC         12V DC         12V DC         12V DC         12V DC         12V DC         24V DC		Wave form	Modified sine wave					
Protection         Output high/low voltage         Yes           Battery low voltage         Yes           Transfer Time         ≤ 10ms           Battery Voltage         12V DC         12V DC         12V DC         12V DC         24V DC         2	Protection	Overload	Yes					
Battery low voltage   Yes		High temperature	Yes					
Battery   Low voltage   Short circuit   Sho		Output high/low voltage	Yes					
Transfer Time		Battery low voltage	Yes					
Transfer Time		Battery	Over-charge, over-discharge, reversed polarity protection					
Table   Tabl		Short circuit	Yes					
Charge Voltage         13.8V±0.2 V         13.8V±0.2 V         27.5V±0.2 27.5V±0.2 27.5V±0.2 V           Low Battery Voltage Limit         10.5V±0.3 V         10.5V±0.3 V         10.5V±0.3 V         21V±0.3V         21V±0.3V         21V±0.3V         20V±0.3V	Transfer Time	Transfer Time		≤ 10ms				
Charge Voltage         V         210×10.3V         20×10.3V         20×10.	Battery Voltage		12V DC	12V DC	12V DC	24V DC	24V DC	
Low Battery Voltage Limit	Charge Voltage		13.8V±0.2	13.8V±0.2	13.8V±0.2	27.5V±0.2	27.5V±0.2	
Low Battery Voltage Limit         V         V         21V±0.3V         21V±0.3V         21V±0.3V           Battery Low Voltage Protection Point         10V±0.3V         10V±0.3V         10V±0.3V         20V±0.3V         20V±0.3V           Charge Current         7A/15A Selection           Yes           Operating temperature         0 - 40 °C           Relative humidity         10%~90% RH, non-condensing           Storage temperature         - 15 - 45 °C           Inverter size (mm)         205x120x310           Inverter N.W. (kg)         4.30         5.30         6.30         9.80         12.80           Appearance         Qty/Ctn         2           Carton size (mm)         240x160x360			V	V	V	V	V	
Charge Current         7A/15A Selection           Cooling system         Yes           Operating temperature         0 - 40 °C           Relative humidity         10%~90% RH, non-condensing           Storage temperature         - 15 - 45 °C           Inverter size (mm)         205x120x310           Inverter N.W. (kg)         4.30         5.30         6.30         9.80         12.80           Inner box size (mm)         240x160x360           Appearance         Qty/Ctn         2           Carton size (mm)         540*365*185	Low Battery Voltage Limit					21V±0.3V	21V±0.3V	
Yes           Operating temperature         0 - 40 °C           Relative humidity         10%~90% RH, non-condensing           Storage temperature         - 15 - 45 °C           Inverter size (mm)         205x120x310           Inverter N.W. (kg)         4.30         5.30         6.30         9.80         12.80           Inner box size (mm)         240x160x360           Appearance         Qty/Ctn         2           Carton size (mm)	Battery Low Voltage Protection Point		10V±0.3V	10V±0.3V	10V±0.3V	20V±0.3V	20V±0.3V	
Operating temperature         0 - 40 °C           Relative humidity         10%~90% RH, non-condensing           Storage temperature         - 15 - 45 °C           Inverter size (mm)         205x120x310           Inverter N.W. (kg)         4.30         5.30         6.30         9.80         12.80           Inner box size (mm)         240x160x360           Appearance         Qty/Ctn         2           Carton size (mm)	Charge Current		7A/15A Selection					
Environmental         Relative humidity         10%~90% RH, non-condensing           Storage temperature         - 15 - 45 °C           Inverter size (mm)         205x120x310           Inverter N.W. (kg)         4.30         5.30         6.30         9.80         12.80           Inner box size (mm)         240x160x360           Appearance         Qty/Ctn         2           Carton size (mm)         540*365*185	Cooling system		Yes					
Storage temperature	Environmental	Operating temperature	0 - 40 °C					
Inverter size (mm)   205x120x310     Inverter N.W. (kg)   4.30   5.30   6.30   9.80   12.80     Inner box size (mm)   240x160x360     2		Relative humidity	10%~90% RH, non-condensing					
Inverter N.W. (kg)		Storage temperature	- 15 - 45 ℃					
Inner box size (mm)   240x160x360	Appearance	Inverter size (mm)	205x120x310					
Appearance         Qty/Ctn         2           Carton size (mm)         540*365*185		Inverter N.W. (kg)	4.30	5.30	6.30	9.80	12.80	
540*365*185		Inner box size (mm)	240x160x360					
Carton size (mm)		Qty/Ctn	2					
		Carton size (mm)	540*365*185					
Carton G.W. (kg) 10,50   12.50   14.50   21.50   27.50		Carton G.W. (kg)	10.50	12.50	14.50	21.50	27.50	