

SOHO Inverter

Protect Your Data and Devices



MARSRIVA Technology Co., Ltd.

www.marsriva.com



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SOHO INVERTER

Pure sine wave

600VA – 1500VA



FEATURES

Pure Sine Wave Inverter

Suitable for devices with high power quality requirements, such as sensitive home appliances and computers.

4-Stage Voltage Regulation

Ensuring stable output voltage across different input voltage ranges.

Selectable Input Voltage Range

Adapting to different grid conditions in various regions or usage environments.

Selectable Battery Types provide users with greater flexibility

Compatible with various battery types, including gel batteries, lead-acid batteries, and water batteries.

Compatible with Grid Voltage and Generator Power

Offering a flexible choice of power sources.

Automatic Startup on Mains Return

Automatically detect mains power return and initiate operation, ensuring a quick switch to backup power after a power outage.

Overload and Short Circuit Protection

Effectively safeguarding devices from potential electrical issues.

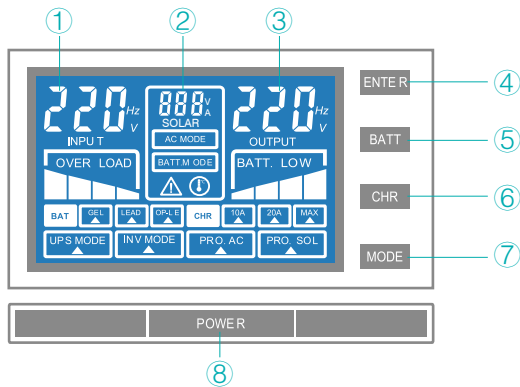
Intelligent Battery Charger Design

Optimizes battery performance, extending the overall battery lifespan.

Cold Start Function

Enhancing capability to handle emergency situations.

INTRODUCTION



- ① Input voltage
- ② Inbuilt solar charging current
- ③ Output voltage
- ④ Confirm button
- ⑤ Battery type selection
- ⑥ Charging current selection
- ⑦ Mode selection
- ⑧ ON/OFF switch/PRO selection

1. Press BATT to select the GEL/LEAD/OP-LE battery and press ENTER to confirm.
2. Press CHR to select 10A/20A Max AC charge current and press ENTER to confirm.
3. Press MODE to select INV MODE 100VAC-290VAC or UPS MODE 145VAC-275VAC and press ENTER to confirm.

SPECIFICATIONS

Model	MR-UT600	MR-UT800	MR-UT1000	MR-UT1200	MR-UT1500
Capacity	600VA / 500W	800VA / 640W	1000VA / 800W	1200VA / 1000W	1500VA / 1200W
Power Factor	0.8				

INPUT	
Voltage Range	145 – 270VAC ± 5 VAC (UPS. mode); 100 – 290VAC ± 5VAC (INV. mode)
Frequency Range	45 – 65Hz

OUTPUT	
Voltage Range (AC Mode)	203 – 238VAC ± 5VAC (UPS. mode); 150 – 255VAC ± 5VAC (INV. mode)
Voltage Range (Batt. Mode)	220 ± 5VAC
Frequency	50 ± 0.5Hz
Wavefrom	Pure sine wave
Transfer Time	< 10ms

BATTERY	
Battery Type	GEL / Sealed lead-acid / Open lead-acid
Nominal Voltage	12VDC 24VDC
Charging Current (Max.)	10A / 20A (selectable)

PHYSICAL	
Dimension (D*W*H)	290 * 257 * 123mm
Weight	7.6kg 9.8kg 10.8kg 12.2kg 13.8kg

ENVIORMENT	
Temperature	0 – 40°C
Humidity	20%~90% (no condensing)
Audible Noise	< 40dB (1m)

Specifications are subject to change without notice, and all product drawings are for reference only. Consult MARSRIVA for the latest design and specifications.

SOHO INVERTER

Pure sine wave

2000VA – 3000VA



FEATURES

Pure Sine Wave Inverter

Suitable for devices with high power quality requirements, such as sensitive home appliances and computers.

4-Stage Voltage Regulation

Ensuring stable output voltage across different input voltage ranges.

Selectable Input Voltage Range

Adapting to different grid conditions in various regions or usage environments.

Selectable Battery Types provide users with greater flexibility

Compatible with various battery types, including gel batteries, lead-acid batteries, and water batteries.

Compatible with Grid Voltage and Generator Power

Offering a flexible choice of power sources.

Automatic Startup on Mains Return

Automatically detect mains power return and initiate operation, ensuring a quick switch to backup power after a power outage.

Overload and Short Circuit Protection

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Intelligent Battery Charger Design

Optimizes battery performance, extending the overall battery lifespan.

Cold Start Function

Enhancing capability to handle emergency situations.

SPECIFICATIONS

Model	MR-UT2000	MR-UT3000
Capacity	2000VA / 2000W	3000VA / 3000W
Power Factor	1.0	
INPUT		
Voltage Range	180VAC – 265VAC ± 5VAC (UPS. mode); 160VAC – 265VAC ± 5VAC (INV. mode)	
Frequency Range	45Hz – 65Hz	
OUTPUT		
Voltage Range (AC mode)	180VAC – 265VAC ± 5VAC (UPS. mode); 160VAC – 265VAC ± 5VAC (INV. mode)	
Nominal Voltage (Batt. mode)	230VAC	
Frequency	50Hz ± 0.1Hz / 60Hz ± 0.1Hz (Auto sensing)	
Transfer Time	<10ms (Typical)	
Efficiency	>95% (AC mode); >80% (Batt. mode)	
Waveform	Pure sine wave	
THD	<3% (Linear load)	
Overload Protection	(100% < Load < 120%) + 10%: Auto shutdown in 2 mins;	
	(120% < Load < 140%) + 10%: Auto shutdown in 60s;	
	(140% < Load) + 10%: Auto shutdown in 20s;	
BATTERY		
Battery Type	8 types of Lead-acid Batteries	
Nominal Battery Voltage	24VDC	
AC Charging Current	5A – 45A	
MPPT Voltage Range	34VDC – 150VDC	
Max. PV Input Voltage	170VDC	
Solar Charging Current	10A – 60A	
PHYSICAL		
Dimension (D*W*H)	526 * 286 * 251mm	
Weight		
ENVIRONMENT		
Operating Temperature	0°C – 40°C	
Storage Temperature	-15°C – 60°C	
Humidity	5% – 95% (no condensing)	
Audible Noise	<40dB (at 1m)	

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WIN TOGETHER!

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