

PURE SINE WAVE INVERTER / UPS

Operation manual

Preface

Welcome to use this inverter / UPS, please read this manual for details before operation.

Product features

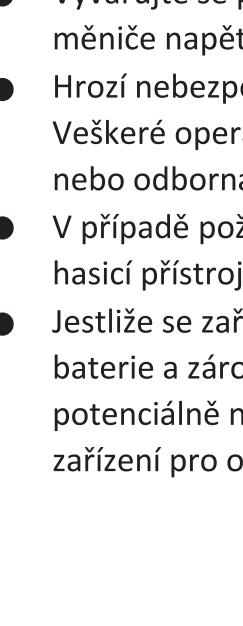
- with inverter, UPS, AVR and charger function;
- toroidal transformer design, high efficiency low static loss, much more energy-saving than old square transformer type design;
- 32-bit high speed CPU controlled, swift reponse speed, more accurate detection;
- LED colorful humanistic and friendly operation interface, displays clearly device's working status, input&output voltage, loading status, battery status, etc;
- pure sine wave output, suitable for almost all of appliance;
- high charging current
- short switchover time, guarantees the connected appliances uninterrupted usage;
- ventilation fan intelligent controlled, fan working based on the setting temperature and working status.

Safety precautions

- this series product is designed for computer&internet devices and home appliance usage not recommended in life support system and other special important equipment application
- avoid overloading, do not use the device beyond its maximum power capacity;
- it will be a danger of high voltage in the device even all the switches are turned off, any operation to move or open the device should be performed by authorized professional personnel;
- in case of fire, use dry powder type fire extinguisher, do not use liquid type fire extinguisher;
- if the device works unusually, please switch off both power sources of battery and city power immediately, any power source exist in such case will cause danger; and please report to the distributor for professional advices.

Display, control and warning details

- normal working interface



- detail display

	/	city power input normal, device through AVR supplies output
	/	city power input abnormal, battery through inverter supplies AC output
	/	temperature is too high, device cuts off output
	/	battery over voltage, short circuit, high MOSFET's temperature
	/	city power input is over voltage
	/	city power input is low voltage
	/	loading exceeds device's rated power
	/	loading bar showing the loading situation
	/	battery bar showing the battery capacity, when in charging, the bar will be flashing
	/	input voltage indication
	/	output voltage indication and frequency indication

Operational description

Name	Component drawing	Description
output switch		pushing it for more than 2 seconds, switch on/off the inverter or output
AC input cord or terminal	or	plug it or connect it to wall socket or city power when charges battery or supplies output through AVR
output socket or terminal	or	appliance connect to this socket or terminal for output Note: The Max. power for single socket is 2000W If your appliance's power is more than 2000W, please connect to terminal
vantilation fan		under battery mode or charging, when the power transistor temperature higher than 45°C, fan will start
battery input pole		red battery input cable for positive pole, black battery input cable for negative pole; be attention to the battery voltage must follow the device marking

Buzzer working status description

Working status	Description
when city power abnormal switchover to battery mode	beeping one time
battery working low voltage or output overload	beeping every second
protection or output abnormal	beeping hurriedly

Installation and operation

1. installation
 - 1.1 if found any damage upon package opening, please contact distributor immediately;
 - 1.2 do not install the device up-side-down; not exposed to direct sunlight or heat source; out of reach from children; away from water, moisture, oil or grease and any flammable substance;
 - 1.3 for better ventilation, fan outlet and device ventilation hole should have at least 10CM distance from the wall or other adjacent not heat producing equipment;
 - 1.4 make sure the city power voltage and frequency matches the device rated;
 - 1.5 the device should be placed in the well grounded condition to ensure the safety;

2. battery connection

connect the red cable to battery "+" pole and connect the black cable to battery "-" pole, device can not work under wrong connection.

Technical parameter table

power	MPU-300-12	MPU-500-12	MPU-700-12	MPU-1200-12	MPU-1600-12	MPU-1050-24	MPU-1400-24	MPU-1800-24
battery voltage	12VDC	12VDC	12VDC	12VDC	12VDC	24VDC	24VDC	24VDC
charging current	10A	20A/30A	20A/40A	10A/15A	10A/20A			
charging voltage	13.8V±0.5V					27.6V±0.5V		
AC input range				on battery mode or power off, it returns to mains mode when input voltage is $165V\pm5V$ - $260\pm5V$;				
AC input frequency				on mains mode ,it switch to battery mode when input voltage is less than $150V\pm5V$ or over than $270\pm5V$;				
output range						Mains:204V-240V Inverter:230V±3%		
inverter output frequency				50Hz/60Hz±0.5Hz, subject to the mains				
output overload protection				battery mode: when overload 110%~130%, last 30 seconds before cut off the output; when overload 130% and above, cut off the output immediately				
working ambient temperature				mains mode: warning till circuit breaker protects				
working ambient humidity						0~40°C		
						10%RH~90%RH		

Mení napětí s čistou sinus, funkci

UPS a nabíjeckou

Uživatelský manuál

Úvod

Děkujeme za zakoupení měniče napětí s čistou sinus, funkci UPS a nabíječekou. Před jeho použitím venujte pozornost následujícím informacím.

Vlastnosti produktu

- Měnič napětí, funkce UPS, funkce AVR nabíječka;
- Toroidní transformátor, vysoká účinnost, nízká statická ztrátovost, mnohem úspornější než stará verze se čtvercovým transformátorem;
- 32-bitový vysokorychlostní řídící CPU, rychlá odezva, přesnější detekce;
- Uživatelsky přátelský a intuitivní barevné LED ovládací rozhraní, zobrazuje přehledné pracovní stav zařízení;
- Čistý sinusový výstup, vhodné skoro pro všechny spotřebiče v závislosti na jejich spotřebě a výkonu měniče;
- Vysoký nabíjecí proud;
- Krátký přepínací/zálohovací čas zaručuje plynulý neprušovaný chod připojených spotřebičů;
- Inteligentní řízení zařízení chladiče, chladič běží v závislosti na aktuální teplotě a pracovním režimu měniče.

Bezpečnostní pokyny

- Tato řada měničů je navržena pro použití s počítači, domácí elektronikou a zařízeními sloužícími k připojení na internet. Ne doporučuje se je používat v systémech životní podpory a dalších důležitých specializovaných veřejných aplikacích, jejichž důležitost a účel mohou ohrozit veřejné zájmy, majetek a lidský život;
- 避雷針
- Avoid overloading, do not use the device beyond its maximum power capacity;
- It will be a danger of high voltage in the device even all the switches are turned off, any operation to move or open the device should be performed by authorized professional personnel;
- In case of fire, use dry powder type fire extinguisher, do not use liquid type fire extinguisher;
- If the device works unusually, please switch off both power sources of battery and city power immediately, any power source exist in such case will cause danger; and please report to the distributor for professional advices.

Zobrazování, ovládání a varování

- Klasické ovládací rozhraní

● Podrobné zobrazení:

Normal power input

Battery mode

Overheat

Unusual

Low voltage

High voltage

Over load

Long time

Short time

Indication

Output voltage

Frequency

Normal mode

Battery mode

Overheat

Unusual

Low voltage

High voltage

Over load

Long time

Short time

Indication

Output voltage

Frequency

Normal mode

Battery mode

Overheat

Unusual

Low voltage

High voltage

Over load

Long time

Short time

Indication

Output voltage

Frequency

Normal mode

Battery mode

Overheat

Unusual

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