

MPT Series

INVERTER/CHARGER MODIFIED SINE WAVE

Reliable power supply solution

For RV and off grid solar system



This power inverter convert DC 12V or DC 24V of the storage batteries into AC 110V or AC 220V, and also charge the storage batteries by converting the AC to DC when there is AC power supply. Briefly to say, when AC unavailabe, it convert DC to AC, when AC available, it supply AC output directly and charge the storage batteries.

It is well suitable to supply power for notebook, digital camera, video camera and other used in the districts with unstable power or supplied power by the solar or wind energy sources. Besides, it supplies a stable power for household appliance as TV, computer, DVD, VCD, satellite receiver, printer, fluorescent lamp, cooler, stereo, fan, electric drill, press drill, lighting, motor, game player ect.

Product Features

- fully automatic ups switching function
- soft start function. Even if with heavy load, it will not harm this product and the appliances, which largely enhance its loading capacity
- Less time needed to charge with a more efficient charging rate. The charging process concludes 4 steps: pre-charge, main charge, float charge, charge fully
- The intelligent positive and negative pulse charge not only could protect and repair the storage battery but charge more quickly and fully, it can extend the life of the battery
- AC output voltage display function, very obviously and conveniently
- Small size, light weight, no noise and no pollution with a pleasurable outlook
- Have sound and lack voltage alarm indication, charge indicator, charge fully indicator and temperature control and making cold fan control

Protection

- Input AC over voltage and low voltage protection
- Battery DC over voltage and low voltage protection
- Short circuit protection
- Over temperature protection
- Over load protection

Application



Motorhome Caravan Mobile homes



Ambulance Fire truck Off grid solar

Power Range

600W

1000W

1500W

2000W

3000W

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Models	MPT600	MPT 1000	MPT1500	MPT2000	MPT3000
Output Power	600W	1000W	1500W	2000W	3000W
Surge Power	1200W	2000W	3000W	4000W	6000W
AC Output					
Output Voltage	110/220VAC±5%				
Output Frequency	50/60Hz ±1%				
Output Waveform	Modified sine wave				
DC Input					
DC Input Voltage	12V/24VDC	12V/24VDC	12V/24VDC	12V/24VDC	12V/24VDC
DC Work Voltage	11.1V~15VDC/ 21V~29VDC				
DC Input Low Voltage Protection	9V~10.5VDC/ 18.5V~20.5VDC				
DC Input Lack Voltage Alarm	9.5V~11VDC/ 19.5V~21VDC				
DC Input Over Voltage Protection	≥15V / ≥29V				
DC Input Fuse	40A X 3/ 20A X 3	40A X 3/ 20A X 3	25A X 7/ 15A X 7	35A X 7/ 20A X 7	350A / 180A
Idle Consumption	≤1A	≤1A	≤2A	≤2A	≤2.5A
Efficiency	≥85%	≥85%	≥85%	≥85%	≥85%
Charge Parts					
AC Input Voltage	110V/220VAC	110V/220VAC	110V/220VAC	110V/220VAC	110V/220VAC
AC Working Voltage	85~130VAC/170~250VAC				
AC Input Low Voltage Protection	≤75VAC / ≤ 150VAC				
AC High Voltage Protection	≥130VAC / ≥ 250VAC				
DC Output Voltage	12VDC/24VDC				
Charge Voltage	14V~15VDC/ 28V~30VDC				
Charge Current	10A/5A	10A/5A	15A/8A	15A/8A	25A/15A
Transfer Time	≤10ms				
Conditions From Inverter to AC Supply	In the normal AC input voltage				
Conditions From AC Supply to Inverter	No AC input or AC input protection happen				
Yellow LED Indicator	Light (fully charge) , flash (charging) , extinguish (no AC supply or in AC input voltage protection station				
Other Information					
Overload Protection	600W-720W	1000W-1200W	1500W-1600W	1900W-2100W	2900W-3100W
Short Circuit Protection	yes	yes	yes	yes	yes
Operating Temp	-10~50°C				
Temperature Protection	60°C~70°C				
Cooling	Automatically controlled cooling fan				
Green Indicator	Light (work), flash slowly (lack voltage alarm), flash fast (fault occur and the unit in protection condition)				