



All In One MPPT Inverter Charger HPE Series



DC input voltage: 24V/48VDC

Power optional: 3.5KW / 5.5KW

HPE series high-frequency charging inverter all-in-one machine, which is an intelligent combination of inverter, backup UPS, PV charger and AC charger. This professional MPPT inverter charger, with high anti-interference pure sine wave output, can provide reliable electricity consistent with or even better than grid.

HPE series can switch in inverter and grid mode automatically. Equipped with an intelligent control screen, users can set the battery low voltage, charging current, or working mode according to the use manual.

Even without a battery, the HPE can still power the load through photovoltaic input. Built-in high-power MPPT photovoltaic controller to provide charging guarantee for the battery bank with maximum efficiency.

Features

- High power factor, high inverter efficiency.
- Pure sine wave output for all home or office loads.
- Built-in MPPT PV controller, Maximum charging current up to 110A, Maximum PV input power is 6000W.
- Intelligent LCD screen, you can set the working mode, charging voltage by yourself.
- You can choose which mode the first according to your demand. grid mode, PV mode or inverter mode optional.
- You can network for monitoring through the RS485 and RS232 interfaces.
- The LCD remote control panel and WIFI are optional.

Protection

- Grid input over-voltage, low-voltage protection.
- Battery under-voltage and over-voltage protection.
- Output short-circuit protection.
- Over-temperature protection.
- Photovoltaic overload protection.

Applications



PV



Home use



RV

Model	HPE3000-224H		HPE5500-248H	
Battery System Voltage	24VDC		48VDC	
INPUT				
Voltage	230 VAC±5%			
Selectable Voltage Range	170-280 VAC (For Personal Computers)			
	90-280 VAC (For Home Appliances)			
Frequency Range	50 Hz/60 Hz (Auto sensing)			
OUTPUT				
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%			
RATED POWER	3500VA/3500W		5500VA/5500W	
Surge Power	7000VA/7000W		11000VA/11000W	
Efficiency (Peak) PV to INV.	97%			
Efficiency (Peak) Battery to INV.	94%			
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)			
Waveform	Pure sine wave			
BATTERY & AC CHARGER				
Battery Voltage	24 VDC		48 VDC	
Floating Charge Voltage	27 VDC		54 VDC	
Overcharge Protection	33 VDC		63 VDC	
Maximum AC Charge Current	80 A		80 A	
MPPT SOLAR CHARGER				
Maximum PV Array Power	5000 W		6000W	
MPPT Range @ Operating Voltage	120 ~ 450 VDC			
Maximum PV Array Open Circuit Voltage	500 VDC			
Maximum Charging Current	110A			
Maximum Efficiency	98%			
PHYSICAL				
Dimension, D x W x H (mm)	300*132*495			
Net Weight (kgs)	/		/	
Communication interface	RS485/RS232			
OPERATING ENVIRONMENT				
Humidity	5% to 95% Relative Humidity (Non-condensing)			
Operating Temperature	0°C - 55°C			
Storage Temperature	-15°C - 60°C			