



PRODUCT OVERVIEW

The HT series is a new all-in-one hybrid solar charger inverter which integrates solar energy storage and grid power storage with sine wave AC output. Thanks to DSP control and an advanced control algorithm, the HF series has a high response speed, high reliability and meets top industry standards.

FEATURES

- Full digital voltage and double closed loop current control, SPWM technology and pure sine wave output.
- Two output modes – grid power bypass/inverter output & uninterrupted power supply.
- Available in 4 charging modes: solar only, grid priority, solar priority, grid and solar hybrid charging.
- Advanced MPPT technology with 99.9% efficiency.
- Compatible with various battery types.
- ON/OFF rocker switch for AC output control.
- Power saving mode available to reduce no-load loss.
- Intelligent variable speed fan for efficient thermal management and extended system life.
- Lithium battery activation design, allowing access for lead-acid batter and lithium battery.
- 360° all-around protection including overload, short circuit and over-current.
- Horizontal configuration for cabinet rack installation.

APPLICATIONS

- Emergency power supply.
- Home backup storage.
- Data storage/UPS backup systems.
- Off-grid power storage.
- Solar power storage.

Product Description

PART#	DESCRIPTION	OUTPUT VOLTAGE	INPUT VOLTAGE	POWER OUTPUT	WEIGHT
EV-HT4830S80-145	220/230VAC Hybrid Inverter	230VAC	48V	3000W	29.38 LBS
EV-HT4840S80-145	220/230VAC Hybrid Inverter	230VAC	48V	4000W	29.38 LBS
EV-HT4850S80-145	220/230VAC Hybrid Inverter	230VAC	48V	5000W	29.38 LBS

Specifications

MODEL#	EV-HT4830S80-145	EV-HT4840S80-145	EV-HT4850S80-145
AC MODE			
Rated Input Voltage	220/230VAC		
Input Voltage Range	(170VAC-280VAC) ±2% ; (90VAC-280VAC)±2%		
Frequency	50Hz/ 60Hz (automatic detection)		
Frequency Range	47±0.3Hz ~ 55±0.3Hz (50Hz)/57±0.3Hz ~ 65±0.3Hz (60Hz)		
Overload/Short Circuit Protection	Circuit breaker		
Efficiency	>95%		
Conversion Time (Bypass & Inverter)	10ms (Typical)		
AC Reverse Protection	Available		
Maximum Bypass Overload Current	40A		
INVERTER MODE			
Output Voltage Waveform	Pure sine wave		
Rated Output Power (VA)	3000(2600/2700/3000)VA	4000(3480/3600/3800/4000)VA	5000(4350/4500/4800/5000)VA
Rated Output Power (W)	3000(2600/2700/3000)W	4000(3480/3600/3800/4000)VA	5000(4350/4500/4800/5000)VA
Power Factor	1		
Rated Output Voltage	230VAC(200/208/220/240VAC Settable)		
Output Voltage Error	±5%		
Output Frequency Range (Hz)	50Hz ± 0.3Hz/60Hz ± 0.3Hz		
Efficiency	>92%		
Overload Protection	(102% < load < 125%) ±10%: report error and turn off the output after 5 minutes; (125% < load < 150%) ± 10%: report error and turn off the output after 10 seconds; Load >150% ±10%: report error and turn off the output after 5 seconds;		
Peak Power	6000VA	8000VA	10000VA
Loaded Motor Capacity	2HP	3HP	4HP
Output Short Circuit Protection	Circuit breaker		
Bypass Breaker Specifications	63A		
Rated Battery Input Voltage	48V (Minimum starting voltage 44V)		
Battery Voltage Range	40.0Vdc~60Vdc ± 0.6Vdc (Undervoltage alarm/shutdown voltage/overvoltage alarm/overvoltage recovery... can be set on LCD screen)		
Power Saving Mode	Load ≤50W		
AC CHARGING			
Battery Type	Lead acid or lithium battery		
Maximum Charge Current	60A		
Charge Current Error	± 5ADC		
Charge Voltage Range	40VDC~58VDC		
Short Circuit Protection	Circuit breaker		
Circuit Breaker Specifications	(AC IN)63A/(BA)125A		
Overcharge Protection	Alarm and charging shutoff after 1 minute		

MODEL#	EV-HT4830S80-145	EV-HT4840S80-145	EV-HT4850S80-145
PV CHARGING			
Maximum PV Open Circuit Voltage	145VDC		
PV Operating Voltage Range	60-145VDC		
MPPT Voltage Range	60-115VDC		
Battery Voltage Range	40-60VDC		
Maximum Output Power	4200W		
PV Charging Current Range	0-80A (Can be set)		
Charging Short Circuit Protection	BAT circuit breaker and fuse		
Wiring Protection	Reverse polarity protection		
CERTIFIED SPECIFICATIONS			
Certification	CE (EN62109), ETL		
EMC Certification Level	EN61000, C2		
Operating Temperature Range	5°F to 131°F		
Storage Temperature Range	-13°F ~ 140°F		
Humidity Range	5% to 95% (Conformal coating protection)		
Noise	≤ 60dB		
Heat Dissipation	Forced air cooling, variable speed of fan		
Communication Interface	USB/RS485(Bluetooth/WiFi/GPRS)/Dry node control		
Dimensions	18.97" x 16.73" x 5.23"		
Weight	29.38 LBS		

Product Images

