

EH1200-EH12000

Off-Grid Hybrid Solar Inverter Series

1.2 kW / 3.6 kW / 6 kW / 12 kW | MPPT

Pure Sine Wave | LiFePO4 RS485 Support

Batteryless Operation



KEY FEATURES

Built-in MPPT

Integrated 1 or 2 MPPT solar charging depending on model.

LiFePO4 Communication

Compatible with LiFePO4 batteries through RS485 communication.

Optional Wi-Fi

Supports optional Wi-Fi remote monitoring.

Pure Sine Wave Output

Stable AC output for household and backup loads.

Batteryless Operation

Capable of operating without battery under suitable system conditions.

Priority Modes

Supports UTL, SOL, SBU, and SUB output priority modes.

MODEL RANGE

EH1200 / EH3600 / EH6000 / EH12000

Rated output range: 1200 W to 12000 W

Each model column is separated in the technical table to keep parameter mapping clear.

TECHNICAL SPECIFICATIONS - EH1200-EH12000

Parameters are separated by model to avoid cross-reading values across power ratings.

Parameter	EH1200	EH3600	EH6000	EH12000
General				
Rated Power	1200 W	3600 W	6000 W	12000 W
Parallel Quantity	0	0	0-6	0-6
AC Input				
Input Voltage	230 / 240 VAC	230 / 240 VAC	230 / 240 VAC	230 / 240 VAC
Selectable Voltage Range - UPS	170-264 VAC	170-280 VAC	170-280 VAC	170-280 VAC
Selectable Voltage Range - INV	90-280 VAC	120-280 VAC	90-280 VAC	90-280 VAC
Frequency Range	50 / 60 Hz, auto sensing	50 / 60 Hz, auto sensing	50 / 60 Hz, auto sensing	50 / 60 Hz, auto sensing
AC Output				
AC Voltage Regulation (Batt. Mode)	208 / 220 / 230 / 240 VAC	208 / 220 / 230 / 240 VAC	208 / 220 / 230 / 240 VAC	220 / 230 / 240 VAC
Surge Power	2.4 kW	7.2 kW	12 kW	24 kW
Efficiency (PV to INV)	95%	95%	95%	95%
Efficiency (Battery to INV)	94%	94%	94%	94%
Transfer Time	10 ms	10 ms	10 ms	10 ms
Overload Capacity	1 min @102%-110%; 10 s @110%-130%; 3 s @130%-150%; 2 s @150%	1 min @102%-110%; 10 s @110%-130%; 3 s @130%-150%; 2 s @150%	1 min @102%-110%; 10 s @110%-130%; 3 s @130%-150%; 2 s @150%	1 min @102%-125%; 10 s @>125%
Battery & AC Charge				
Battery Voltage	12 VDC	24 VDC	48 VDC	48 VDC
Floating Charge Voltage	13.5 VDC	27 VDC	54 VDC	54 VDC
Overcharge Protection	15.75 VDC	32 VDC	64 VDC	61 VDC
Maximum Charge Current	60 A	100 A	120 A	160 A
PV Charge				
Maximum PV Array Power	1000 W	5000 W	9000 W	15000 W
MPPT Range Operating Voltage	20-100 VDC	40-430 VDC	60-450 VDC	60-450 VDC
Maximum PV Array Open Circuit Voltage	125 VDC	450 VDC	500 VDC	500 VDC
Maximum Charge Current	60 A	100 A	120 A	160 A
Maximum Efficiency	99%	99%	99%	99%
AC + PV Charge				
Maximum Charge Current	120 A	100 A	120 A	160 A
Operating Environment				
Humidity	5%-95% RH, non-condensing	5%-95% RH, non-condensing	5%-95% RH, non-condensing	5%-95% RH, non-condensing
Operating Temperature	0-55 °C	0-55 °C	0-55 °C	0-55 °C
Storage Temperature	-15-60 °C	-15-60 °C	-15-60 °C	-15-60 °C
Physical				
Communication Interface	USB / RS232 / RS485	USB / RS232 / RS485	USB / RS232 / RS485	USB / RS232 / RS485
Dimensions (L x W x H)	260 x 103 x 342 mm	320 x 128 x 439 mm	343 x 122 x 427 mm	389 x 129 x 503 mm
Package Size (L x W x H)	355 x 198 x 435 mm	415 x 215 x 535 mm	425 x 195 x 495 mm	470 x 225 x 565 mm
Net Weight	4.1 kg	9 kg	9.2 kg	15 kg

Specifications may be updated without prior notice.