



ON/OFF-GRID SOLAR INVERTER

Model: EH3600 / EH5000 / EH6000 / EH10200 / EH12000 | Product Datasheet

EH3600-EH12000

On/Off-Grid Solar Inverter Series

3.6 kW / 5 kW / 6 kW / 10.2 kW / 12 kW | MPPT

Pure Sine Wave | Lithium and Lead-acid Battery Support

Grid Feed-in | Generator Ready | Optional Wi-Fi Monitoring



KEY FEATURES

MPPT Solar Charging

Model-specific PV input range and power.

Battery Support

Compatible with lithium and lead-acid batteries.

Generator Ready

Compatible with generator backup systems.

Pure Sine Wave Output

Stable AC output for household and backup loads.

Grid Feed-in

Supports grid feed-in operating scenarios.

Optional Wi-Fi

Supports optional remote monitoring.

MODEL RANGE

EH3600 / EH5000 / EH6000 / EH10200 / EH12000

Rated output range: 3.6 kW to 12 kW

Supports solar charging, battery operation, grid feed-in, generator backup and backup loads.
Product appearance and technical parameters may be updated without prior notice.



TECHNICAL SPECIFICATIONS - EH3600-EH12000

AC, battery, PV charging and monitoring parameters for model selection.

Parameter	EH3600	EH5000	EH6000	EH10200	EH12000
AC Input					
Rated Input Voltage	208 / 220 / 230 / 240 VAC; L + N + PE	208 / 220 / 230 / 240 VAC; L + N + PE	208 / 220 / 230 / 240 VAC; L + N + PE	208 / 220 / 230 / 240 VAC; L + N + PE	220 / 230 / 240 VAC; L + N + PE
Voltage Range	90-280+/-3 VAC normal; 170-280+/-3 VAC UPS	90-280+/-3 VAC normal; 170-280+/-3 VAC UPS	90-280+/-3 VAC normal; 170-280+/-3 VAC UPS	90-280+/-3 VAC normal; 170-280+/-3 VAC UPS	90-280+/-3 VAC normal; 170-280+/-3 VAC UPS
Frequency	50 / 60 Hz auto adaptive	50 / 60 Hz auto adaptive	50 / 60 Hz auto adaptive	50 / 60 Hz auto adaptive	50 / 60 Hz auto adaptive
AC Output					
Rated Capacity	3.6 kW	5 kW	6 kW	10.2 kW	12 kW
Surge Power	5.7 kVA	10 kVA	12 kVA	20.4 kVA	24 kVA
Output Voltage	208 / 220 / 230 / 240 VAC	208 / 220 / 230 / 240 VAC	208 / 220 / 230 / 240 VAC	208 / 220 / 230 / 240 VAC	220 / 230 / 240 VAC
Power Factor	1	1	1	1	1
Frequency Accuracy	50 / 60 Hz +/-0.1%	50 / 60 Hz +/-0.1%	50 / 60 Hz +/-0.1%	50 / 60 Hz +/-0.1%	50 / 60 Hz +/-0.1%
Switch Time	10 ms	10 ms normal / 10 ms UPS	10 ms normal / 10 ms UPS	10 ms normal / 10 ms UPS	10 ms APP/UPS; 20 ms GEN
Waveform	Pure sine wave	Pure sine wave	Pure sine wave	Pure sine wave	Pure sine wave
Overload Capacity	60s @102%-110%; 10s @110%-130%; 3s @130%-150%; 0.2s @>150%	60s @102%-110%; 10s @110%-130%; 3s @130%-150%; 0.2s @>150%	10min @102%-120%; 1min @120%-150%; 10s @150%-200%; 5s @>200%	10min @102%-120%; 1min @120%-150%; 10s @150%-200%; 5s @>200%	1min @102%-125%; 10s @>125%
Max Efficiency	92.7% @24 VDC	93% @24 VDC	93% @48 VDC	93% @48 VDC	94% @48 VDC
PV / AC Charger					
Solar Charger Type	MPPT	MPPT	MPPT	MPPT	Dual MPPTs
Max PV Input Current / Power	18 A / 5,000 W	27 A / 9,000 W	19 A + 19 A / 9,000 W	30 A / 10.8 kW	One MPPT: 27 A / 9 kW; two MPPTs: 22.5 A per MPPT, 15 kW total
Operating Voltage Range	40-450 VDC	80-450 VDC	80-520 VDC	60-450 VDC	60-450 VDC
Max PV Open Circuit Voltage	500 VDC	500 VDC	500 VDC	500 VDC	500 VDC
Max PV Charge Current	100 A	160 A	120 A	120 A	160 A
Max AC Charge Current	100 A	160 A	120 A	120 A	160 A
Max Charge Current (PV + AC)	100 A	160 A	120 A	120 A	160 A
Battery					
Nominal / Rated Voltage	24 VDC	24 VDC	48 VDC	48 VDC	51.2 VDC
Floating Charge Voltage	27 VDC	27 VDC	56 VDC	56 VDC	56 VDC
Overcharge Protection	29.2 VDC	29.2 VDC	60 VDC	60 VDC	58.4 VDC
Battery Type	Lithium and lead-acid	Lithium and lead-acid	Lithium and lead-acid	Lithium and lead-acid	Lithium and lead-acid
Interface & Monitoring					
Display / HMI	LCD	LCD	LCD	LCD	LCD
Communication	RS485 / RS232 / USB	RS485 / RS232 / USB	RS485 / USB / Dry Contact / CT / Meter	RS485 / USB / Dry Contact / CT / Meter	RS232 / RS485 / USB
Monitoring	WiFi optional	WiFi optional	WiFi optional	WiFi optional	WiFi optional: none / built-in / external
General Data					
Ingress Protection	IP21	IP21	IP21	IP21	IP21
Operating Temperature	-10 °C to +50 °C	-10 °C to +50 °C	-10 °C to +50 °C	-10 °C to +50 °C	-10 °C to +60 °C
Relative Humidity	5%-95%, non-condensing	5%-95%, non-condensing	5%-95%, non-condensing	5%-95%, non-condensing	5%-95%, non-condensing
Storage Temperature	-15 °C to +60 °C	-15 °C to +60 °C	-15 °C to +60 °C	-15 °C to +60 °C	-15 °C to +60 °C
Net / Gross Weight	6.3 / 7.3 kg	8.6 / 9.9 kg	8.7 / 10.1 kg	14.2 / 15.7 kg	24.2 / 26.0 kg
Product Size (W x H x D)	289 x 420 x 100 mm	331 x 410 x 135 mm	331 x 410 x 135 mm	390 x 130 x 530 mm	425 x 495 x 132 mm
Package Size (W x H x D)	369 x 500 x 170 mm	471 x 407 x 211 mm	471 x 407 x 211 mm	470 x 210 x 610 mm	551 x 491 x 191 mm
Max Operating Altitude	4000 m, derating above 1000 m	4000 m, derating above 1000 m	4000 m, derating above 1000 m	4000 m, derating above 1000 m	4000 m, derating above 1000 m