



EH3600-BL5000 / EH3600-BL8000

All-in-One Off-Grid Inverter & Battery System

3.6 kW Inverter | 5 / 8 kWh Battery | MPPT Solar Charging

The Enerup EH3600-BL5000 / EH3600-BL8000 series integrates an off-grid inverter, MPPT solar charger, LiFePO4 battery storage, and BMS in one floor-standing cabinet for residential backup and solar energy applications.

KEY FEATURES

All-in-One Off-Grid ESS

Integrated inverter, charger, battery, and BMS in one floor-standing system.

Built-in Solar Charger

MPPT solar charger with up to 5 kW PV input.

Wide MPPT Range

PV operating voltage range from 40 to 450 VDC.

Utility Input Support

Supports AC utility input for charging and backup operation.

Pure Sine Wave

Stable AC output suitable for household backup loads.

Lithium / Lead-Acid Support

Supports lithium and lead-acid battery applications.

Wi-Fi Monitoring

Remote monitoring supported via Wi-Fi.

Lithium Battery Activation

Supports lithium battery activation function.

QUICK SPECIFICATIONS - EH3600 SERIES

Models	EH3600-BL5000 / EH3600-BL8000
System Type	All-in-one off-grid inverter and battery ESS
Rated AC Output Power	3.6 kW
Battery Energy	5 kWh / 8 kWh
Usable Energy (90% DOD)	4.5 kWh / 7.2 kWh
Max. PV Input Power	5000 W
PV Operating Voltage Range	40-450 VDC
Product Size (L x W x H)	440 x 246 x 760 mm

TECHNICAL SPECIFICATIONS - EH3600 SERIES

General	
Models	EH3600-BL5000 / EH3600-BL8000
System Type	All-in-one off-grid inverter and battery ESS
Rated Inverter Output	3.6 kW
Battery Energy	5 kWh / 8 kWh
Usable Energy	4.5 kWh / 7.2 kWh (90% DOD)
AC Input	
Rated Input Voltage	208 / 220 / 230 / 240 VAC; L + N + PE
Input Voltage Range	90-280 VAC +/-3 V (normal mode); 170-280 VAC +/-3 V (UPS mode)
Frequency	50 / 60 Hz auto adaptive
AC Output	
Rated Capacity	3.6 kW
Output Voltage	208 / 220 / 230 / 240 VAC
Power Factor	1.0
Output Frequency	50 / 60 Hz +/-0.1%
Switch Time	10 ms
Waveform	Pure sine wave
Overload Capacity	60 s @ 102%-110%; 10 s @ 110%-130%; 3 s @ 130%-150%; 0.2 s @ >150%
Max. Efficiency	92.7% @ 24 VDC
PV / Charger	
Solar Charger Type	MPPT
Max. PV Input Current / Power	18 A / 5000 W
PV Operating Voltage Range	40-450 VDC
Max. PV Open Circuit Voltage	500 VDC
Max. PV Charge Current	100 A
Max. AC Charge Current	100 A
Max. Charge Current (PV + AC)	100 A
Battery	
Battery Type	LiFePO4
Nominal Battery Voltage	25.6 VDC
Rated Energy	EH3600-BL5000: 5 kWh (0.2C, 25 °C); EH3600-BL8000: 8 kWh (0.2C, 25 °C)
Usable Energy	EH3600-BL5000: 4.5 kWh; EH3600-BL8000: 7.2 kWh
Max. Charge / Discharge Current	100 A / 150 A
Operating Voltage Range	20.0-29.2 VDC
Battery Operating Temperature	-10 °C to +50 °C
Interface	
Display	LCD
Communication	USB
Monitoring	Wi-Fi
Environment	
Ingress Protection	IP20
Operating Temperature	-10 °C to +50 °C
Relative Humidity	
Storage Temperature	-15 °C to +60 °C
Max. Operating Altitude	4000 m; derating above 1000 m
Mechanical	
Product Size (L x W x H)	440 x 246 x 760 mm
Package Size (L x W x H)	520 x 436 x 890 mm
Net Weight	EH3600-BL5000: 58 kg; EH3600-BL8000: 73 kg
Gross Weight	EH3600-BL5000: 73 kg; EH3600-BL8000: 86 kg

Specifications are subject to change without notice. Product appearance may vary by configuration. For technical support, warranty service, and certification documentation, contact your Enerup distributor.