

EH1000-BL2009

Portable All-in-One ESS



1000 W | 2009.6 Wh | Pure Sine Wave | Solar Charging

The Enerup EH1000-BL2009 portable all-in-one ESS integrates inverter, charger, LiFePO4 battery, and BMS for mobile power, camping, outdoor work, and backup applications.

KEY FEATURES

All-in-One Design

Integrated inverter, charger, battery, and BMS in one portable system.

1000 W AC Output

Pure sine wave AC output for portable power applications.

2009.6 Wh Capacity

LiFePO4 battery storage for longer runtime.

Solar Charging

Supports PV charging with 550 W maximum solar input.

Wide MPPT Range

PV array MPPT voltage range 13-55 VDC.

USB Output

5 V / 1 A USB charger output.

LED Indicators

SOC and working status LED indicators.

Integrated Protection

Overcharge, overdischarge, overcurrent, short-circuit, and overtemperature protection.

QUICK SPECIFICATIONS - EH1000-BL2009

Model	EH1000-BL2009
Rated AC Output Power	1000 W
Battery Capacity	2009.6 Wh
Battery Type	LiFePO4 battery
Output Voltage	185-230 VAC, 50 Hz
Output Waveform	Pure sine wave
Low DC Warning Point	<19%
Utility and Solar Charging Power	800 W max.

TECHNICAL SPECIFICATIONS - EH1000-BL2009

General

Model	EH1000-BL2009
Rated AC Output Power	1000 W
Battery Capacity	2009.6 Wh
Battery Type	LiFePO4 battery

AC Output

Output Voltage	185-230 VAC, 50 Hz
Output Waveform	Pure sine wave
Low DC Warning Point	<19%

Charging

Utility and Solar Charging Power	800 W max.
AC Charging Power	800 W max.
Nominal PV Voltage	38 VDC
PV MPPT Range	13-55 VDC
Max. PV Open Circuit Voltage	56 VDC
Solar Charging Power	550 W max.

Battery

Nominal Battery Voltage	6.4 VDC
Typical Capacity	314 Ah
Max. Charge Current	220 A
Max. Discharge Current	220 A
Operating Voltage Range	5.8-7.2 VDC

DC Output

DC Output Power	5 W max.
DC Output Socket	1 x 5 V / 1 A USB charger

Environment & Mechanical

Operating Temperature	-10 °C to +50 °C
Noise	<40 dB at 1 m
Humidity	5%-95%, non-condensing
Altitude	<2000 m
Product Size	240 x 225 x 360 mm
Package Size	286 x 271 x 416 mm
Net / Gross Weight	20.9 / 22.7 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.