

EH04E

EH04E rack-mounted home and small commercial energy storage, 5 kW with 10 to 41 kWh



Inverter	5 kW, 230 V
Battery module	5.12 kWh LiFePO4
Capacity	2 to 8 modules (10 to 41 kWh)
Max PV input	12 kW
Cycle life	6,000 cycles at 80 % DoD
Format	Rack modules or built frame

A rack-format energy storage system for homes, villas and small commercial premises, built from 5.12 kWh LiFePO4 modules under a 5 kW hybrid inverter. It is supplied either as individual rack modules to be integrated into an existing cabinet, or as a complete built frame ready to connect.

INVERTER

Rated output power	5 kW
Rated output voltage	230 Vac
Input voltage range	120-500 Vac
Max PV input power	12,000 W
Max PV input voltage	500 Vdc
MPPT voltage range	120-450 Vdc
Max DC input current	22 A

BATTERY

Type	LiFePO4, 16S1P
Capacity per module	100 Ah / 5.12 kWh
Configurations	2 to 8 modules
Nominal voltage	51.2 V
Rated output current	100 A
BMS protection current	105 A
Charge current / max grid charge / ...	50 A / 60 A / 100 A
Charge cut-off voltage	57.6 V
Discharge cut-off voltage	42.4 V
Cycle life	6,000 cycles, 80 % DoD at 2...

ENVIRONMENT

Charging temperature	0 to 65 C
Discharging temperature	-20 to 65 C
Storage temperature	0 to 35 C (over 1 month)
Humidity	15-90 % RH, non-condensing

KEY ADVANTAGES

- **Two formats, one platform**

Two formats from one platform: loose rack modules for integrators, or a complete built frame for fast installation.

- **Scalable 10 to 41 kWh**

Scalable from 10 to 41 kWh by adding 5.12 kWh modules.

- **Solar, grid or generator**

Charges from solar, grid or generator, with constant-current and constant-voltage charging profiles.

- **Wide temperature range**

BMS protection current and wide temperature range for garages, technical rooms and outdoor cabinets.

APPLICATIONS

Homes and villas with rooftop solar · Small commercial premises, shops and offices · Telecom and technical rooms needing quiet backup · Integrators building their own storage cabinets · Weak-grid and island installations