

RESIDENTIAL

Home 16

Floor-standing home battery

A 51.2 V, 314 Ah LiFePO4 battery that stores 16.07 kWh for residential solar systems.

16.07 kWh

NOMINAL ENERGY

10.24 kW

OUTPUT POWER

≥8,000 cycles

CYCLE LIFE

Up to 50

PARALLEL UNITS

Full specs: blazarenergy.io/products/home-16



Home 16 is an indoor-rated, floor-standing low-voltage battery built on LiFePO4 cells, with 16.07 kWh of nominal energy and 10.24 kW of nominal output power. In the reference layout it connects to a hybrid inverter together with solar panels, household loads and the grid. Up to 50 units can be connected in parallel, and the integrated BMS communicates over RS-485, CAN or RS-232.

KEY ADVANTAGES



Long cycle life

Rated for at least 8,000 cycles at 80% depth of discharge and 25 °C, with a recommended state-of-charge window of 10% to 90% for best cycle life.



BMS management

An integrated battery management system supervises the 51.2 V pack and exchanges data with the inverter over RS-485, CAN or RS-232.



Parallel expansion

Up to 50 units can be connected in parallel to scale storage beyond a single 16.07 kWh battery.

FEATURES

✓ Full protection

Cell-level overcharge protection at 3.70 V (±0.025 V), over-discharge protection at 2.70 V (±0.080 V) and short-circuit protection.

✓ Safe chemistry

LiFePO4 cells in an SPCC steel case, rated for indoor use with charging from 0 °C to +55 °C and discharging from -20 °C to +55 °C.

✓ Easy installation

A floor-standing unit measuring 800 × 500 × 260 mm (H × W × D) and weighing 125 kg, designed to sit beside the inverter in a home solar system.

APPLICATIONS

Residential solar systems

Grid-connected homes

Technical specifications

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SYSTEM		THERMAL MANAGEMENT & SAFETY	
Model	Hy-LF051314A0-P	Overcharge protection voltage	3.70 V (±0.025 V)/cell
Warranty	5 years	Over-discharge protection voltage	2.70 V (±0.080 V)/cell
BATTERY		Short circuit protection	Yes
Battery cell type	LiFePO4	COMMUNICATION & CONTROL	
Nominal voltage	51.2 V	Communication port	RS-485 / CAN / RS-232
Nominal capacity	314 Ah	Parallel connection	Up to 50 units
Nominal energy	16.07 kWh	ENVIRONMENT	
Nominal output power capacity	10.24 kW	Operating temperature	Charging: 0 °C to +55 °C; discharge: -20 °C to +55 °C
Working voltage	44.80-58.40 V	Operating humidity	<95%
Charging voltage	58.4 V max	Operating environment	Indoor rated
Charge current	157 A	Storage temperature	-20 °C to +45 °C (1 month); 0 °C to +35 °C (1 year)
Max. continuous discharge current	200 A	Storage humidity	<95%
Instantaneous discharge current	300 A (≤1.0 s)	SOC at shipment	30%-60%
Self-discharge	≤500 mA (working), ≤800 μA (sleeping)	MECHANICAL	
Cycle life	≥8,000 cycles at 80% DoD, 25 °C	Case material	SPCC
Recommended SOC range	10% to 90% (better cycle life)	Dimensions (H × W × D)	800 × 500 × 260 mm
Recommended end of life	Capacity/nominal capacity <70%	Weight	125 kg
		Mounting type	Floor standing

STANDARDS AND CERTIFICATIONS

UN 38.3

MSDS

CE

RoHS

Specifications are based on manufacturer test data and may change without notice. Standards and certifications refer to the manufacturer's test reports, available on request. The final configuration, performance and warranty terms are confirmed in each project proposal.

Let's size the right system for your site.

Battery storage, solar and energy services across Israel, Europe and Latin America.

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