

POSNBAT5

5.12 kWh

Low-voltage LFP battery

A 51.2 V, 100 Ah battery platform for residential solar storage, selected backup loads and low-voltage hybrid or off-grid systems.

Wall-mounted and rolling-floor exterior configurations.



Rolling configuration shown

51.2 V

NOMINAL VOLTAGE

100 Ah

NOMINAL CAPACITY

5.12 kWh

NOMINAL ENERGY

Low-voltage LFP platform

LiFePO₄ chemistry with a 16S1P cell configuration and a nominal energy of 5.12 kWh.

Parallel expansion

Up to 16 units in the existing platform, subject to inverter, communication and protection validation.

BMS communication

CAN, RS485 and dry-contact interfaces. Match the protocol to the selected inverter.

Installation flexibility

Wall-mounted and rolling-floor configurations for different residential installation layouts.

Technical specifications

POSNBAT5

51.2 V low-voltage residential energy storage

Electrical parameters

Cell chemistry / configuration	LiFePO4 (LFP) / 16S1P
Nominal energy	5.12 kWh
Usable energy at 90% DoD	4.61 kWh
Nominal capacity	100 Ah
Nominal voltage	51.2 V
Operating voltage	44.8 - 57.6 V
Recommended charge voltage	56.8 V
Max. continuous charge / discharge	100 A / 100 A
Continuous DC output	5.12 kW
Charge profile / recommended DoD	CC / CV / 90%

Control and communication

Communication interfaces	CAN / RS485 / dry contact
Parallel expansion	Up to 16 units*
BMS protections	OV / UV / OC / SC / OT / UT

Operating conditions

Charge temperature	0 to 50 °C
Discharge temperature	-20 to 55 °C
Relative humidity	5 - 95% RH, non-condensing
Cooling	Natural convection

* Parallel quantity depends on inverter protocol, communication compatibility and cable/fuse coordination. Confirm the exact inverter model before ordering.