

POSNBAT

LOW VOLTAGE LFP BATTERY SERIES

A unified 51.2 V storage platform for residential solar, backup and off-grid applications.



POSNBAT5
5.12 kWh

100 Ah
51.2 V LFP

POSNBAT10
10.24 kWh

200 Ah
51.2 V LFP

POSNBAT16
16.08 kWh

314 Ah
51.2 V LFP

ONE PLATFORM. THREE CAPACITIES.

51.2 V LFP CORE

16-cell series architecture for established low-voltage inverter platforms.

SEALED SIDE ACCESS

A full-height service cover hides every breaker, terminal and communication port.

SYSTEM SCALABILITY

Parallel operation up to 16 units, subject to inverter and BMS validation.

SERIES SPECIFICATIONS

RESIDENTIAL ENERGY STORAGE SYSTEM

MODEL	POSNBAT5	POSNBAT10	POSNBAT16
ENERGY PLATFORM			
Cell chemistry	LiFePO4 (LFP)	LiFePO4 (LFP)	LiFePO4 (LFP)
Cell configuration	16S1P	16S1P	16S1P
Nominal energy	5.12 kWh	10.24 kWh	16.08 kWh
Usable energy at 90% DoD	4.61 kWh	9.22 kWh	14.47 kWh
Nominal capacity	100 Ah	200 Ah	314 Ah
Nominal voltage	51.2 V	51.2 V	51.2 V
Operating voltage	44.8 - 57.6 V	44.8 - 57.6 V	44.8 - 57.6 V
POWER INTERFACE			
Recommended charge voltage	56.8 V	56.8 V	56.8 V
Max. continuous charge / discharge	100 A / 100 A	150 A / 200 A	200 A / 200 A
Continuous DC output	5.12 kW	10.24 kW	10.24 kW
Charge profile	CC / CV	CC / CV	CC / CV
Recommended depth of discharge	90%	90%	90%
CONTROL AND COMMUNICATION			
Communication interfaces	CAN / RS485 / dry contact	CAN / RS485 / dry contact	CAN / RS485 / dry contact
Parallel expansion	Up to 16 units*	Up to 16 units*	Up to 16 units*
BMS protections	OV / UV / OC / SC / OT / UT	OV / UV / OC / SC / OT / UT	OV / UV / OC / SC / OT / UT
MECHANICAL AND ENVIRONMENTAL			
Dimensions (W x D x H)	500 x 185 x 640 mm	560 x 250 x 700 mm	600 x 300 x 900 mm
Approximate weight	50 kg	88 kg	122 kg
Installation	Wall or floor	Floor standing	Floor standing
Ingress protection	IP65*	IP65*	IP65*
Charge temperature	0 to 50 C	0 to 50 C	0 to 50 C
Discharge temperature	-20 to 55 C	-20 to 55 C	-20 to 55 C
Relative humidity	5 - 95% RH, non-condensing	5 - 95% RH, non-condensing	5 - 95% RH, non-condensing
Cooling	Natural convection	Natural convection	Natural convection
LIFECYCLE AND RELEASE STATUS			
Cycle-life target	>=6000 cycles at 80% DoD*	>=6000 cycles at 80% DoD*	>=6000 cycles at 80% DoD*
Warranty programme	5 years standard / extendable to 10 years	5 years standard / extendable to 10 years	5 years standard / extendable to 10 years
Safety & Certification	UN38.3 / MSDS / CE	UN38.3 / MSDS / CE	UN38.3 / MSDS / CE

* Parallel quantity depends on inverter protocol, communication compatibility and cable/fuse coordination. Product configuration may vary by market and application.

INTEGRATED SIDE SERVICE COVER

CLOSED IN NORMAL OPERATION



Flush gasketed cover

Tool-opened service access keeps the DC breaker, power terminals, communication ports and cable glands out of view.

Separated internal zones

Power and signal wiring remain physically separated behind the sealed side cover.