



51.2 V SERIES · PRODUCT DATASHEET

PB512100

51.2 V 100 Ah LiFePO4 battery

RATED ENERGY

5.12 kWh

Sixteen LiFePO4 cells in series give the 51.2 V nominal that modern hybrid solar inverters are designed around: 5.12 kWh and up to 3 kW discharge in one pack.

NOMINAL VOLTAGE

51.2 V

CAPACITY

100 Ah

MAX DISCHARGE

3000 W

MAX CHARGE

50 A

Specifications

Model	PB512100	Max. discharge power	3000 W
Chemistry	LiFePO4 (lithium iron phosphate)	BMS	TriShield: BMS + fuse + MCB
Nominal voltage	51.2 V	Monitoring	Visual voltage & state-of-charge display
Rated capacity	100 Ah	Self-discharge	max 3% per month
Rated energy	5.12 kWh	Dimensions (L × W × H)	455 × 415 × 250 mm (±20)
Max. charging voltage	57.6 V	Storage temperature	25 °C
Max. charging current	50 A	Warranty	3–5 years
Discharge cut-off voltage	44.8 V		

Key features

- TriShield — BMS + Fuse + MCB
- SCT — Sync Charge Technology: charge faster, last longer, stay safer
- SOC — visual voltage & state-of-charge monitoring
- High performance · Zero maintenance · Longer life

Ideal for

- Hybrid solar inverters
- Premium home backup
- Commercial solar
- Shops and offices

TriShield protection: BMS (software: over-current, over-voltage, over-temperature and short-circuit protection), fuse and MCB (hardware: over-current and short-circuit protection). SCT Sync Charge Technology and visual voltage & state-of-charge monitoring. Do not connect batteries in series or parallel. Register the battery at powrio.com/warranty/register to receive a digital warranty certificate with QR verification. Specifications are subject to change; confirm with Powrio before ordering.