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	CAPACITY	MAX DISCHARGE	MAX CHARGE
51.2 V	**100 Ah**	**3000 W**	**50 A**

Specifications

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

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.

Powrio Energy Solutions · 310, Magnifico Commercial Hub, Thaltej, Ahmedabad, Gujarat 380054, India
1800-102-7251 (toll-free) · +91 96703 18958 · info@powrio.com · powrio.com