LISHUI E-ABLE POWER EQUIPMENT CO., LTD
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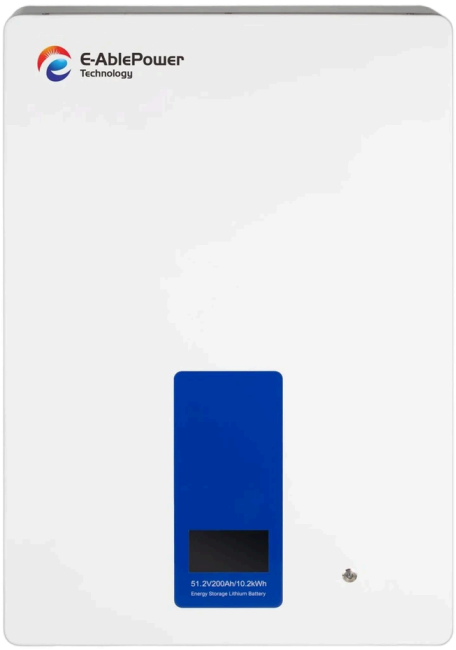
DATASHEET · EAP-DS-20261107-512100-R01

51.2100

Wall-mounted LFP battery · 5.12 kWh · 100 Ah

A 5.12 kWh lithium iron phosphate battery for residential and small commercial storage. It uses a 51.2 100 Ah pack with an integrated BMS, 50 A charging and 100 A continuous discharge, and communicates over RS232, CAN, RS485, WiFi or Bluetooth.

RESIDENTIAL STORAGE | BACKUP POWER | SELF-CONSUMPTION | OFF-GRID CABINS | SMALL COMMERCIAL | MICROGRID



5.12 kWh	100 Ah	> 6,000	IP21
RATED CAPACITY	PACK CAPACITY	CYCLES	ENCLOSURE (IP65 OPTIONAL)

KEY FEATURES

01
LFP chemistry
Lithium iron phosphate cells rated for more than 6,000 cycles at 80 % depth of discharge.

02
50 A / 100 A
Continuous charge and discharge ratings with an integrated BMS and cell-level monitoring.

03
Parallel to 15 units
Up to 15 batteries in parallel for larger banks, with automatic address assignment.

04
Five interfaces
RS232, CAN, RS485, WiFi and Bluetooth; LCD colour screen with optional touch display.

05
Indoor cabinet
IP21 as standard, IP65 optional, 630 × 405 × 160 mm, 47.3 kg.

06
Five-year warranty
UN38.3, MSDS, CE, RoHS and FCC documentation supplied with the battery.

SCOPE OF SUPPLY

- 51.2100 LFP battery
- Integrated BMS
- Communication cable set
- Mounting bracket or base
- UN38.3 / MSDS / CE / RoHS / FCC documents

APPLICATION NOTE

Size the bank for the night load plus one day of autonomy, and keep the charge current within the pack rating. Parallel strings need equal cable lengths and a common busbar.

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TECHNICAL SPECIFICATIONS

BATTERY

Model	**51.2100**
Standard voltage	**51.2 V**
Standard capacity	**100 Ah**
Rated capacity	**5.12 kWh**
Working voltage	**43.2–57.6 V**
Standard charging current	**50 A**
Standard discharging current	**100 A**
Suggested DOD	**80 %**
Cycle life	**> 6,000 cycles**

GENERAL

Ingress protection	**IP21 (IP65 optional)**
Discharge temperature	**−20 to +60 °C**
Charging temperature	**0 to +45 °C**
Maximum parallel	**15 pcs**
Communication	**RS232 / CAN / RS485 / WiFi / BT**
Display	**LCD colour screen (touch optional)**
Product size	**630 × 405 × 160 mm**
Package size	**730 × 505 × 305 mm**
Net / gross weight	**47.3 kg / 56 kg**

COMPLIANCE AND WARRANTY

Warranty	**5 years**
Certificate	**UN38.3 / MSDS / CE / RoHS / FCC**
Packing	**Single export carton**

NOTES

- Charge and discharge currents are the standard ratings printed in the source; higher peaks are BMS-limited.
- IP65 is an option and must be specified on the order.
- Packing is described by method only; carton dimensions and gross weight are supplied with the shipping documents.

Specifications are nominal and may change without notice. The contractual revision is the one confirmed in the order acknowledgement. Draft R01 for internal review.