

LFP1P16S314BOX

HOME 16



Capacity 16kWh

sufficient to store the daily production of a small photovoltaic installation (up to 4kWp).

Safe LiFePO₄ chemistry

Lithium-iron-phosphate design without cobalt eliminates the risk of rapid temperature rise.

Top cell manufacturers

lifespan up to 8000 cycles.

Intelligent protection

The BMS prevents overcharging, excessive discharging, and ensures operation under optimal conditions.

Connection module

allows installation away from the photovoltaic inverter and distribution board.

Parallel connection

allows for an expansion of the energy storage system's capacity



SECURITY FEATURES

- ✗ Single cell overvoltage
- ✗ Single cell undervoltage
- ✗ Battery pack overvoltage
- ✗ Battery pack undervoltage
- ✗ Battery pack overtemperature
- ✗ Battery pack undertemperature
- ✗ Overcurrent protection
- ✗ Overcharge and over-discharge protection
- ✗ Short-circuit protection

TECHNICAL SPECIFICATION

Voltage and capacity

Nominal voltage	51.2V
Max. operating voltage range	42.0-58.4V
Nominal operating voltage range	48.0-54.4V
Capacity	314Ah 16.076kWh
Cycle life	≥ 8000 cycles*
Efficiency	94%
Configuration	1P16S

Operating conditions

Charge temperature	0°C~40°C
Discharge temperature	-5°C~40 °C
Storage < 3m	-5°C~35 °C
Storage > 6m	25°C
Humidity	5~80%
Altitude	<3000m

Charge and discharge

Model	16/140	16/90	16/60
Nominal charge current	140A	140A	140A
Max. charge current	160A**	160A**	160A**
Nominal charge power	7.68kW	7.68kW	7.68kW
Nominal discharge current	140A	120A	90A
Max. discharge current	140A	120A	90A
Nominal discharge power	7.168kW	4.608kW	3.072kW

Others

Dimensions HxWxD	817×412×267mm
Communication	CAN/RS485/Bluetooth
Weight	113 kg

*Under recommended operating conditions.

** At temperatures of 25 ± 2°C