

LFP1P16S280BOX

# HOME 14



## Capacity 14kWh

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

## Safe LiFePO<sub>4</sub> chemistry

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

## Top cell manufacturers

lifespan up to 6000 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	280Ah   14.336kWh
Cycle life	≥ 6000 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	14/140
Nominal charge current	140A
Max. charge current	160A**
Nominal charge power	7.168kW
Nominal discharge current	140A
Max. discharge current	140A
Nominal discharge power	7.168kW

### Others

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

\*Under recommended operating conditions.

\*\* At temperatures of 25 ± 2°C



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- ✗ 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	280Ah   14.336kWh
Cycle life	≥ 6000 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	14/90
Nominal charge current	140A
Max. charge current	160A**
Nominal charge power	7.168kW
Nominal discharge current	90A
Max. discharge current	90A
Nominal discharge power	4.608kW

### Others

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

\*Under recommended operating conditions.

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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	280Ah   14.336kWh
Cycle life	≥ 6000 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	14/60
Nominal charge current	140A
Max. charge current	160A**
Nominal charge power	7.168kW
Nominal discharge current	60A
Max. discharge current	60A
Nominal discharge power	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