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# Specification for LiFePO4 Battery



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## ■ Specification

51.2 VOLT   280 AMP HOUR WITH HEATING FUNCTION	
Cell Type	LiFePO <sub>4</sub> , Prismatic 280AH, 16S1P
Energy	14.35KWH
Nominal Capacity	280Ah (Actual max to 295Ah)
Nominal Voltage	51.2V
Voltage range	43.2V-58.4V
BMS (Battery Management System)	Built-in BMS-16S-100A with Heating Element
Charge Current	100A
Continuous Discharge Current	100A
Peak Discharge Current	200A (≤2S)
SOC LCD Display	YES
Communication Port	RS485/RS232
Battery Case	SPCC/Metal + Wheels
Dimension	L760 x W400 x H400mm (OEM supported)
Net Weight	Approx. 115kg
Operating temperature	Charging: 0°C- 55°C
Operating temperature	Discharging: -20°C- 60°C
Storage temperature	Around -20°C – 35°C
Standard environmental condition	Temperature: 25±2°C
Standard environmental condition	Humidity: 45-75%RH
Standard environmental condition	Atmospheric Pressure: 86-106 KPA

## ■ Features

- # Environmentally friendly, High capacity, Light weight, No memory effect
  - # Built-in BMS manage output power smartly and effectively and protects the battery against excessively high or low voltages, over-charged and over-discharged, short circuits
  - # Support parallel connection to increase capacities
  - # More than 4000 cycles @ 80% DOD, Lifespan over 10 years at 0.2C rate and 25°C temp
  - # High energy density, low internal resistance, good high or cold temp performance
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■ **NOTICE before use**

Before using the battery pack/packs, pls DO NOTE BELOW REMINDINGS:

# Battery appearance visual check:

Carefully open the protective carton/wooden box Once batteries received.

Pls do check if the batteries with any scratches or impacted.

If everything goes well, pls go on.

If any, pls contact us at the very first time without any delay.

# Do correctly connect the battery with Positive Pole and Negative Pole (usually Red + Black -).

Otherwise, short circuit would possibly happen due to wrong connection on +/- terminal.

# Connection Use Notice:

Do keep the battery packs within 1.0VDC voltage difference if you are going to connect them in series or parallel. The smaller voltage difference (0.1V-1.0V) of the battery packs the better for batteries connection.

# DO NOT discharge the battery pack till 0% Power which is not that good to keep longer life.

Pls charge the battery to 80% (100% would also be fine) and DO Recharge the Battery while they are discharged/used down to 20% Power.

# DO Recharge the Battery Packs every 3 months if they are shelved/not used for long time.

# Do not expose to, dispose of the battery in fire.

# Avoid excessive physical shock or vibration.

# Do not disassemble or deform the battery.

# Do not immerse in water.

# Do not use the battery mixed with other different make, type, or model batteries.

Support Max 10pcs Batteries in Parallel Connection or Stand-alone use

Compatible with:

RS485: Growatt | CAN: GoodWE/Schneider/SMA/Sol-Ark

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## ■ Instructions for use

Turn on: Press the DC Power ON-OFF button.

Turn Off/Shut down

When any of the following conditions are met, the system enters the shutdown mode (Battery can only be turned off without an external charger connected)

- 1) The battery be over-discharged and BMS internal protection not released within 30 seconds.
- 2) Turn the DC Power ON-OFF Button.

Note: When the battery is not charged or discharged, it will automatically enter into Sleep Mode; Reactivate the battery by pressing the DC Power button for use.

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