



Data Sheet DC500R

48V 5.0kWh LiFePO4 Battery



Features of LiFePO4 Batteries

Offers up to 10 times longer cycle life than lead acid batteries.

About 30% of the weight of lead acid batteries.

Lithium Iron Phosphate batteries are extremely safe.

Dimensions

Height: 720mm

Width: 435mm

Depth: 170mm

Applications

Solar

UPS

Lighting

SPECIFICATIONS

Model	DC500R
Rated Capacity	5.0kWh
Nominal Voltage	51.2V
Discharge Ending Voltage	45.0V
Recommended Charge Current	20A
Max Charge Current	50A
Max Discharge Current	120A
Pulse Discharge Current	200A for 1S
Charging Temperature	0°C to 45°C
Discharging Temperature	-10°C to 55°C
IP Class	IP30
Weight	68kg
Design Life	>10 Years
Cycle Life	>3000 Cycles
Guarantee	3000 Cycles

Charging

To ensure the maximum life of your DC500R Lithium Iron Phosphate Battery follow these instructions:

Bulk Current	20A
Absorption Voltage	57.6V
Float Voltage	54.4V

Charge at 20A to 57.6V, then maintain voltage until current approaches 0A then float at 54.4V

If the internal Battery Management System disconnects the battery due to low voltage at 100% depth of discharge, remove the load and charge immediately to prevent any damage.

Please note that we recommend storing the batteries at 50% state of charge to prevent damage.

*Battery cycle life and guarantee may be affected if not using the correct charge parameters.

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