LFP24-50

25.6V 50AH

LiFePO4

Lighter Weight

About 40% of the weight of a comparable lead acid battery.
Easy to replace lead acid batteries.

Higher Power

Delivers twice power of lead acid battery.
Higher discharge rate, while maintaining high energy capacity.

Longer Cycle Life

Offers up to 20 times longer cycle life and
five times longer float/calendar life than lead acid battery.

Superior Safety

Lithium Iron Phosphate chemistry eliminates the risk of explosion
or combustion due to high impact, overcharging or short circuit.

Lithium Iron Phosphate
Deep Cycle Battery

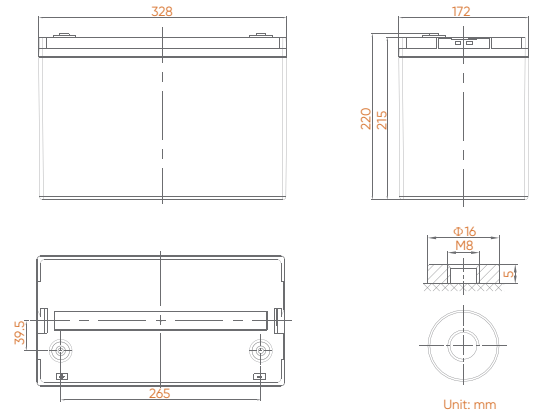
Quality
Guarantee
-
5 Years



Specification

Nominal Voltage	25.6V
Nominal Capacity	50Ah / 1280Wh
BMS	Integrated
Cycle Life	>5000 cycles @0.5C / 50%DOD
Months Self Discharge	<3%
Efficiency of Charge	100% @0.5C
Efficiency of Discharg	96~99% @0.5C
Charge Voltage	28.4~29.2V
Charge Mode	0.2C to 29.2V, then change to 0.02C (CC/CV)
Recommended Charge Current	10A
Max. Charge Current	50A
Charge Cut-off Voltage	29.2V±0.2V
Max. Continuous Discharge Current	50A
Peak Discharge Current	100A (0.5~1.5S)
Discharge Cut-off Voltage	20V±0.5V
Charge Temperature	0°C~55°C @60±25% Relative Humidity
Discharge Temperature	-20°C~60°C @60±25% Relative Humidity
Storage Temperature	-20°C~45°C @60±25% Relative Humidity
Protection Class	IP65
Approx. Dimensions	328mm*172mm*220mm
Approx. Weight	13kg
Terminal	M6
Maximum Modules in Series	4
Monitoring Option	Bluetooth with Smartphone App

Physical Dimension-mm



Unit: mm

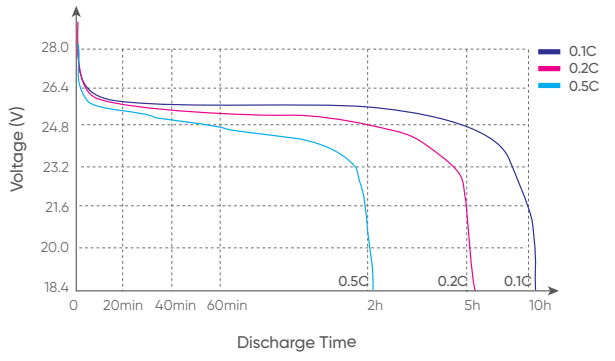
Typical Applications

- Wheelchairs and scooters
- Solar/wind energy storage
- Back-up power for small UPS
- Golf trolleys & buggies
- Electric bikes
- Tools

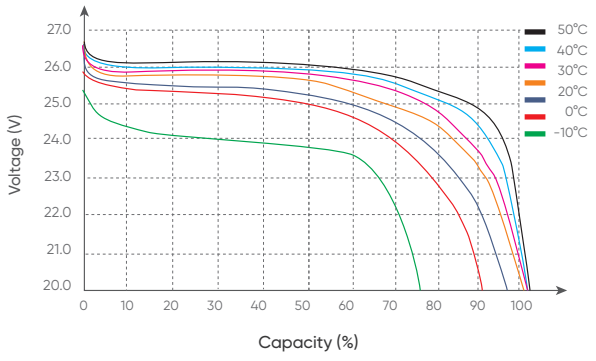
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LFP24-100 25.6V 50AH

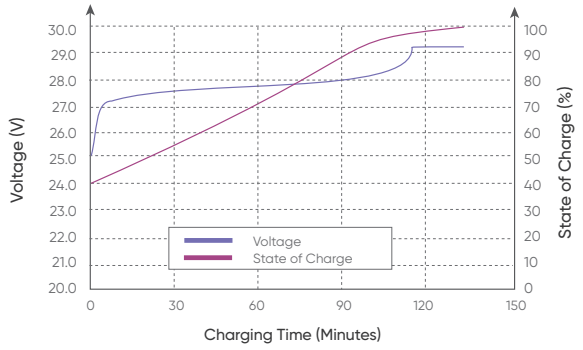
Different Rate Discharge Curve (25°C)



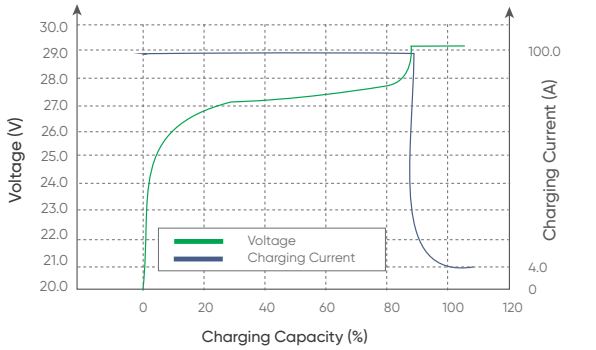
Different Temperature Discharge Curve (0.5C)



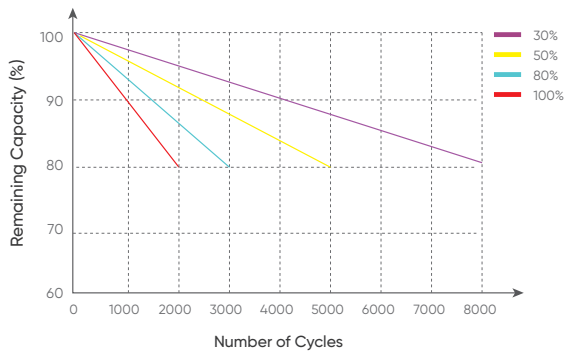
State of Charge Curve (0.5C, 25°C)



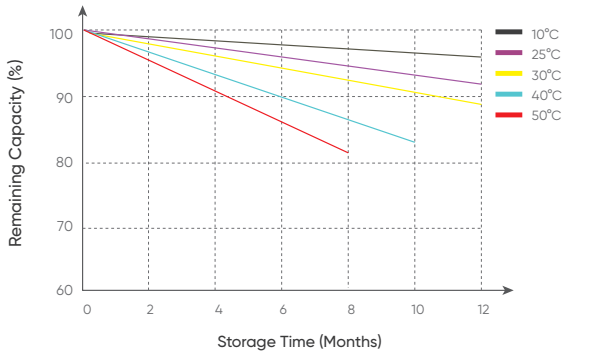
Charging Characteristics (0.5C, 25°C)



Different DOD Discharge Cycle Life Curve (0.5C)



Different Temperature Self Discharge Curve



(Note) All above information shall be changed without prior notice, SunArk reserves the right to explain and update the latest information.