LFP12-300

12.8V 300AH LiFePO4

Lithium Iron Phosphate
Deep Cycle Battery

Quality
Guarantee
–
5 Years



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.

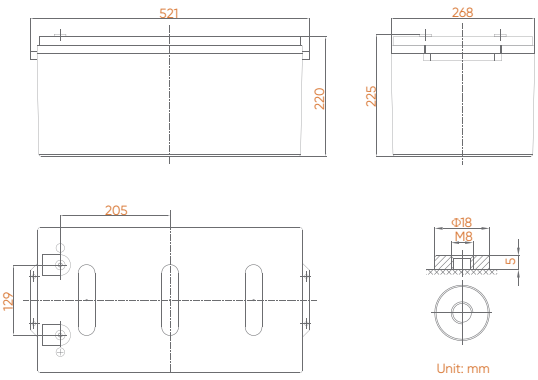
Longer Cycle Life
Offers up to 20 times longer cycle life and
five times longer float/calendar life than lead acid battery.

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

Specification

Nominal Voltage	12.8V
Nominal Capacity	300Ah / 3840Wh
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	14.2~14.6V
Charge Mode	0.2C to 14.6V, then change to 0.02C (CC/CV)
Recommended Charge Current	60A
Max. Charge Current	100A
Charge Cut-off Voltage	14.6V±0.2V
Max. Continuous Discharge Current	200A
Peak Discharge Current	800A±160A (0.5-1.5S)
Discharge Cut-off Voltage	10V±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	521mm*268mm*225mm
Approx. Weight	32kg
Terminal	M8
Maximum Modules in Series	4
Monitoring Option	Bluetooth with Smartphone App

Physical Dimension-mm



Unit: mm

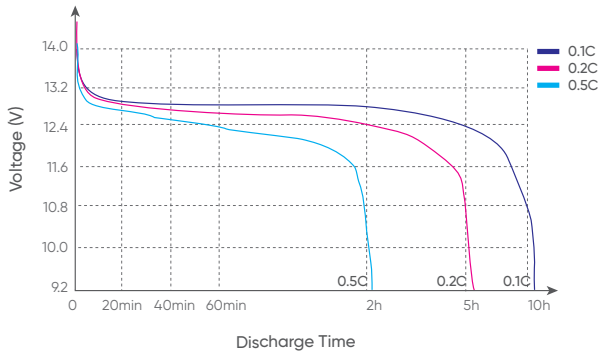
Typical Applications

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

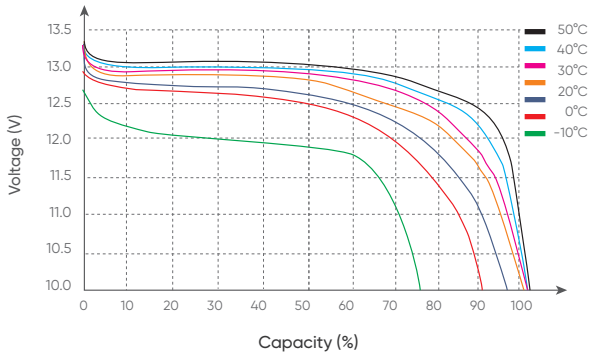
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LFP12-300 12.8V 300AH

Different Rate Discharge Curve (25°C)



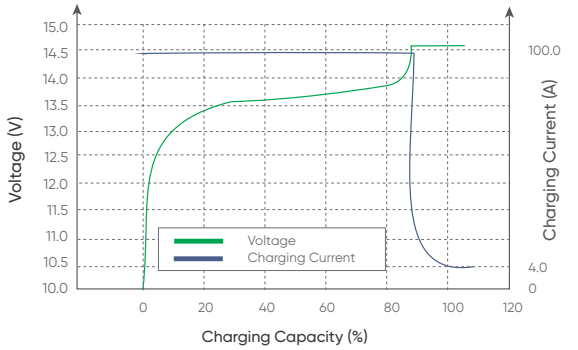
Different Temperature Discharge Curve (0.5C)



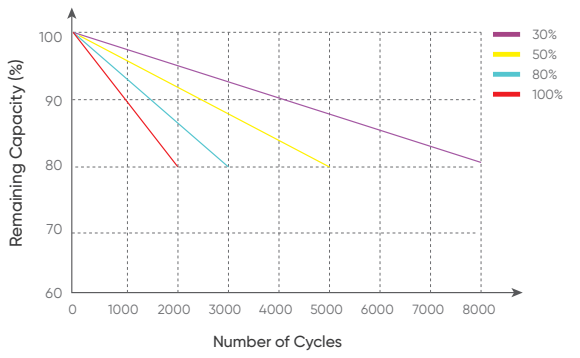
State of Charge Curve (0.5C, 25°C)



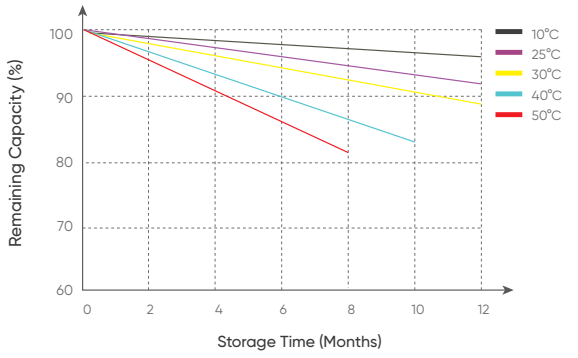
Charging Characteristics (0.5C, 25°C)



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.