

LIFEPO4 BATTERY

12V/24V LIFEPO4 BATTERY

12.8V - 300AH (3840Wh)

12V/24V LiFePO4 Battery series of batteries are designed based on Lithium Iron Phosphate battery technology and aimed to replace VRLA and GEL technology batteries for deep discharge applications. Designed to meet the world's most stringent safety, performance, and quality standards. These batteries come with a range of interesting options and protection features. It includes a hardware BMS for control and protection of the battery. Optionally, allows communication with a WiFi or Bluetooth configure and control the battery, in addition, it has an ON/OFF button and LED to notify the charge status (SOC) of the battery. Thanks to its internal BMS, the battery implements protection systems for overloads, over-discharge, over-current, short circuits, and out of working temperature range (high and low). The Lithium Iron Phosphate battery technology allows maintenance-free operation in a temperature range from -15°C to +50°C and supports up to 3,500 charge-discharge cycles at 100% depth (at 25°C, 0.5C/0.5C, EOL up to 80%). This battery has UN38.3 and CE certifications.



APLICACIONES

RV



YACHT



HOME APPLIANCES



OUTDOOR STALL



LFP-300AH P1

LIFEPO4 - MAINTENANCE-FREE BATTERY

12.8V - 300AH (3840WH)

CENTRENER

TECHNICAL SPECIFICATIONS

Nominal Voltage	12.8V
Nominal Capacity	300Ah
Total Energy	3840Wh
Size/mm	525*270*220
Weight	29.5kg(about)
End-of-charge Voltage	14.6V
End-of-discharge Voltage	10.0V
Standard Charge Current	100A
Max. Charge Current	100A150A
Standard Discharge Current	100A
Max. Discharge Current	100A/200A
Max. Peak Current	200A/300A
Communication	BT/RS485/ (optional)
Charge/Discharge Interface	M6 Terminal/M8 Terminal
Communication Interface	Aviation Socket (optional)
Shell Material/Color	Plastic/Black (color optional)
Work Temperature Range	Charge:0°C-50°C Discharge: -15°C-60°C



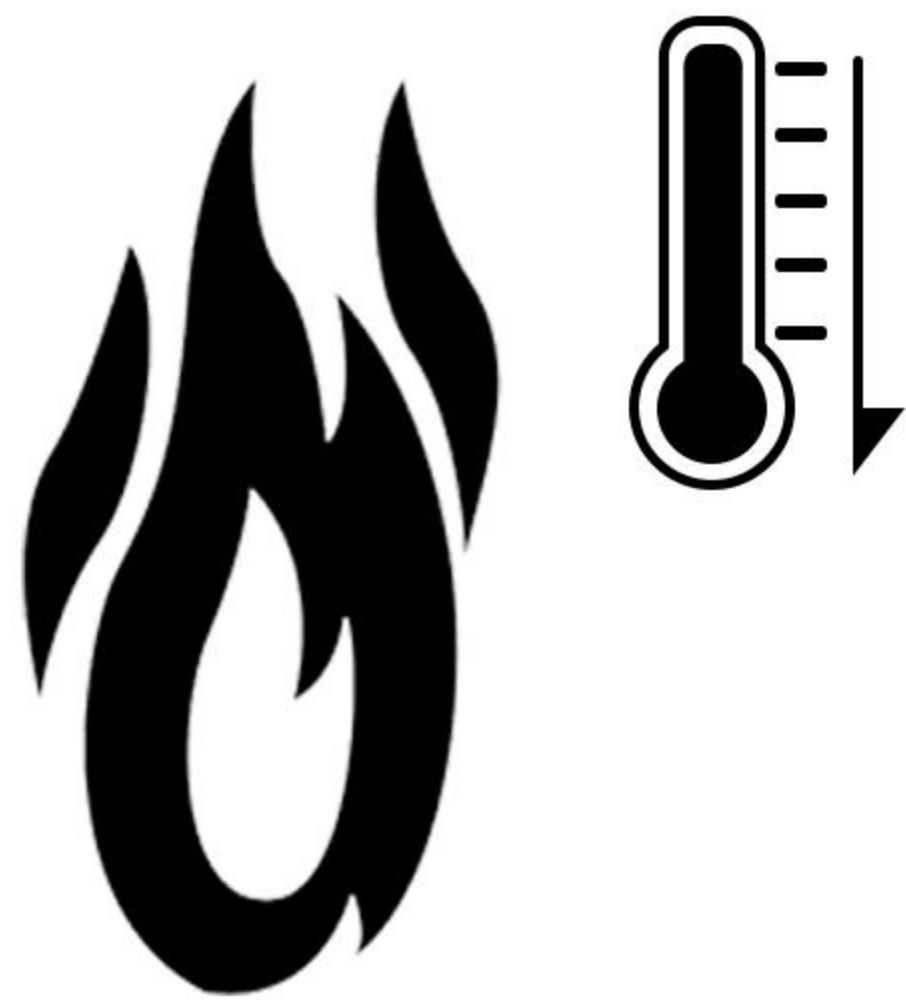
APPLICATIONS

Toys, power tools, household appliances, consumer electronics, boats, golf carts, submarines, electric bicycles/scooters, electric cars, electric wheelchairs, power systems, solar energy storage systems, uninterruptible power supplies, electric forklifts

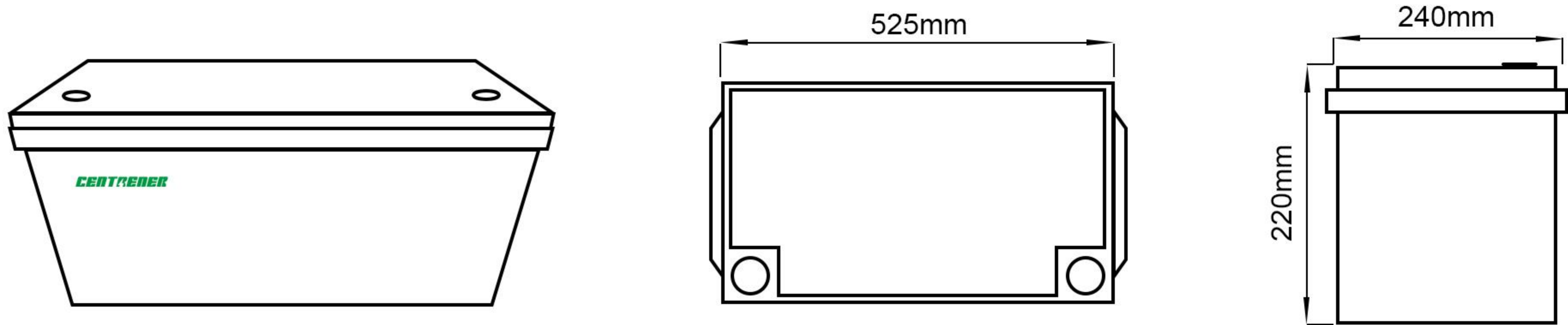
BMS: BATTERY MANAGEMENT SYSTEM

BMS	Hardware BMS integration Supports Bluetooth or WiFi internal modules (optional)
Human Interface	ON/OFF push button LED: Battery Level (25%/50% /75%/100%); ON/OFF; ALARM
Protections	Over-charge, Over-discharge, Over-current, Short-circuit High-temperature, Low-temperat
Connection Capabilities	Up to 4 sets in parallel Up to 4 units in series

Low Temperature Self-heating



BMS: BATTERY MANAGEMENT SYSTEM



LFP-300AH P2

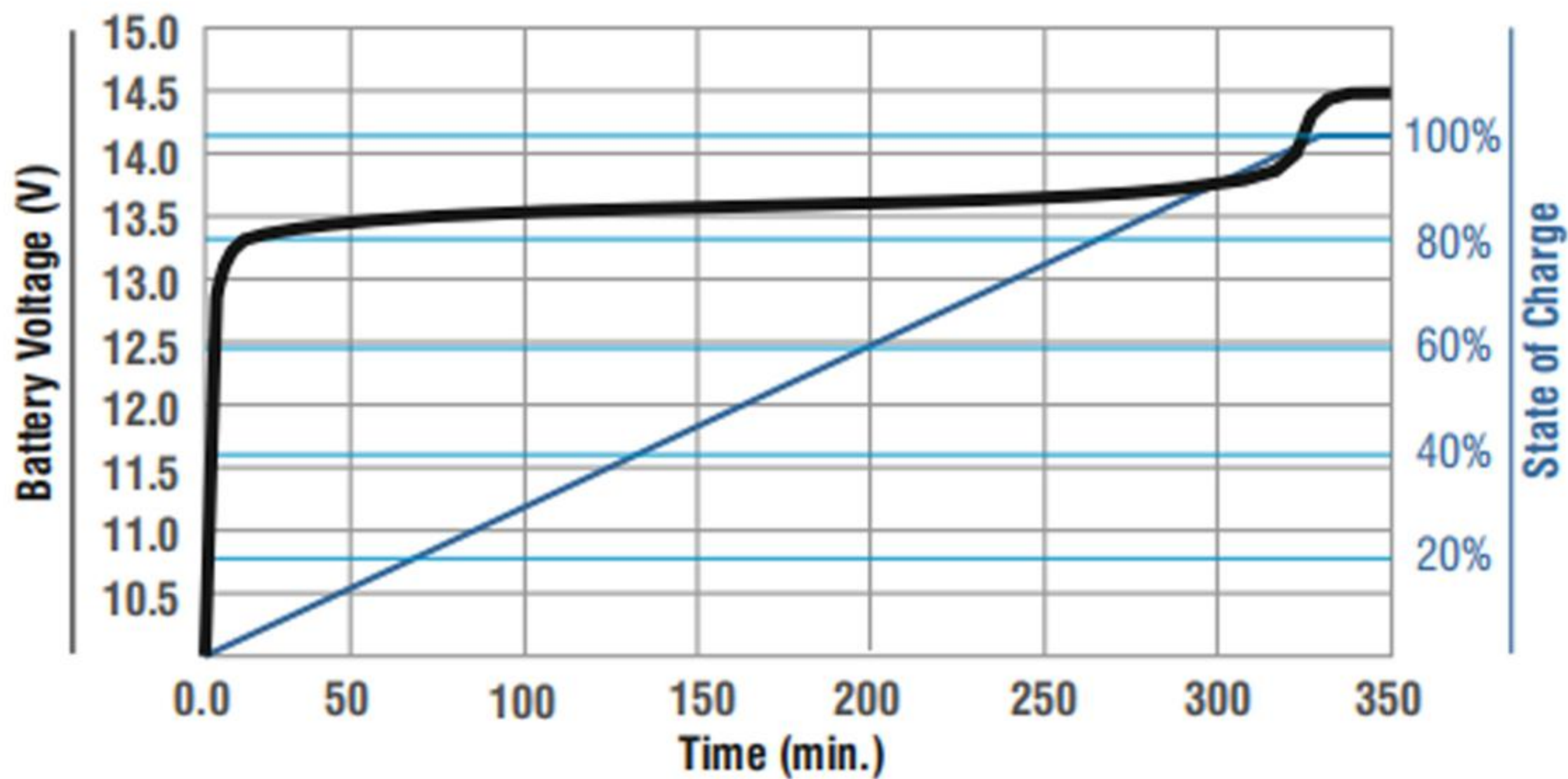
LIFEPO4 - MAINTENANCE-FREE BATTERY

12.8V - 300AH (3840WH)

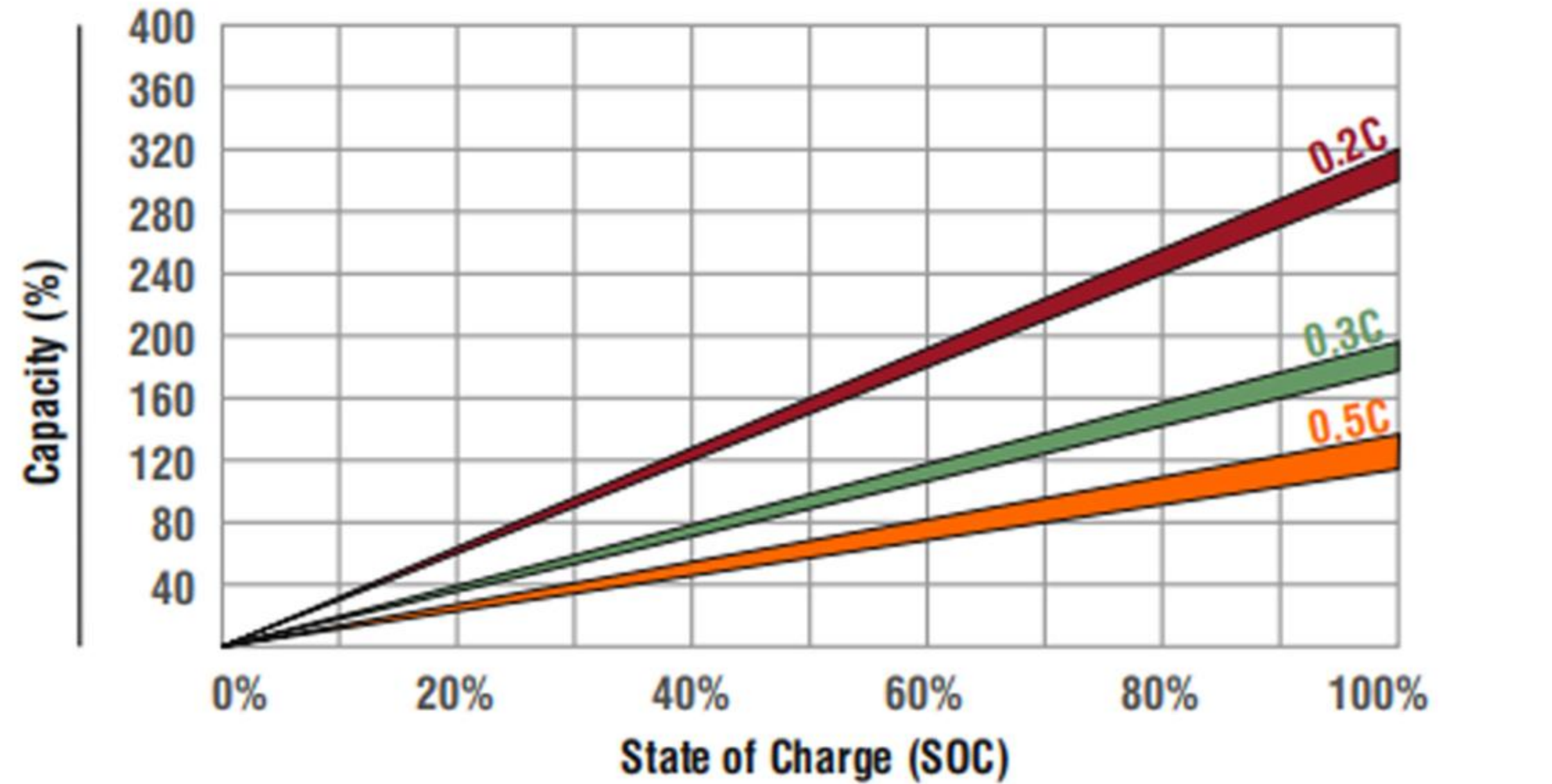


CHARGING & DISCHARGING INFORMATION

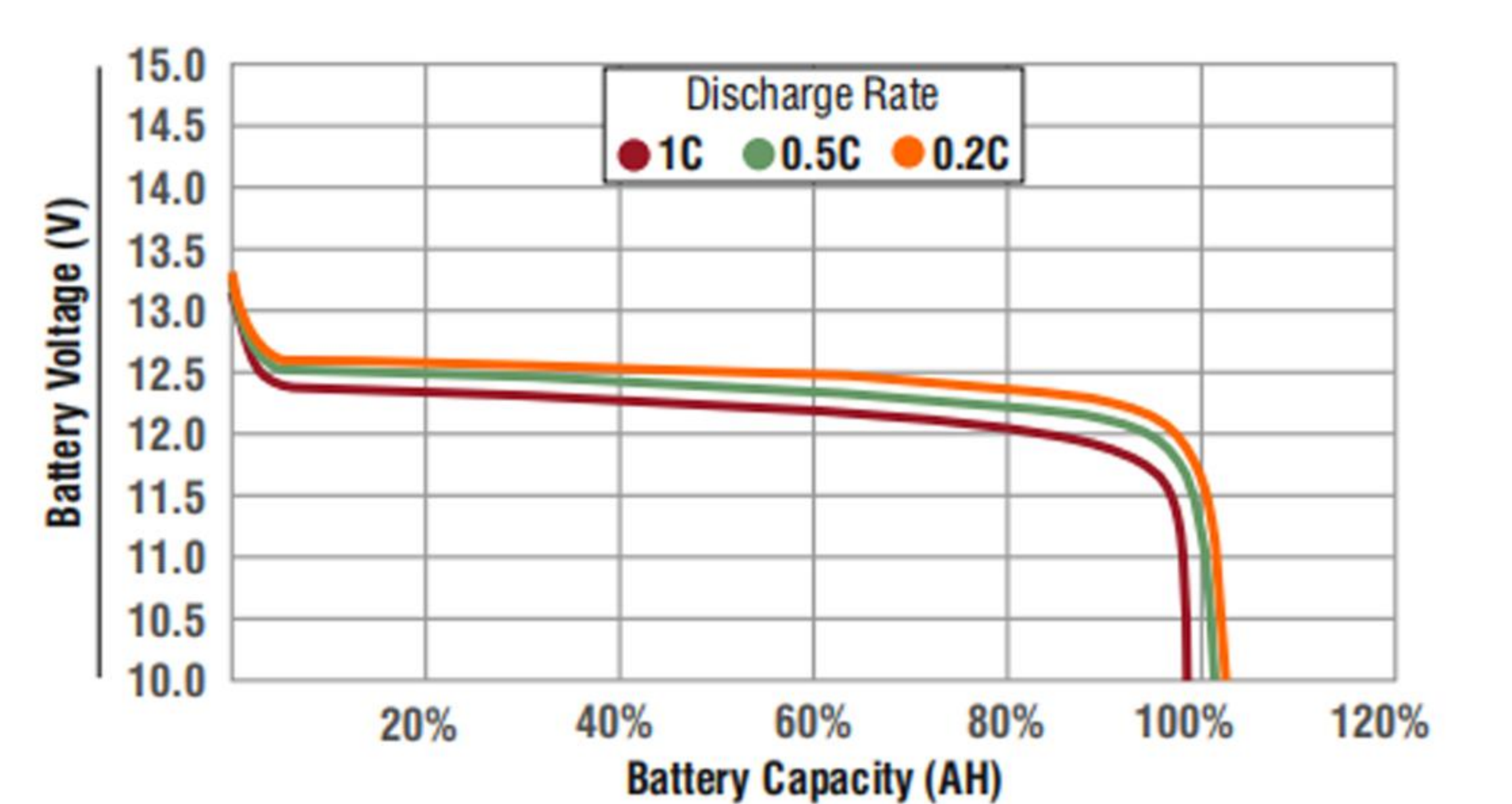
Charging Voltage(25°C / 0.2C)



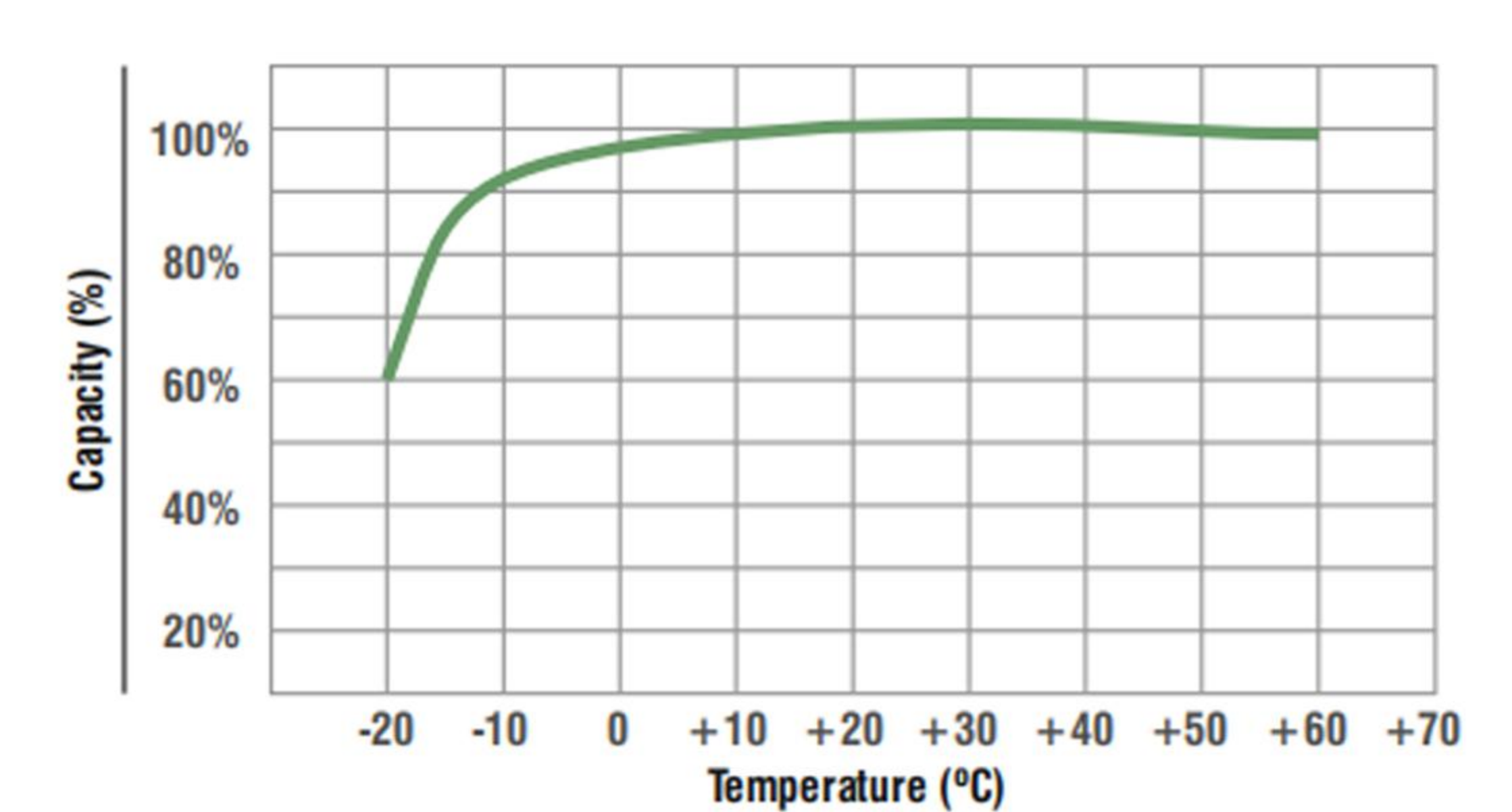
Recharging Time



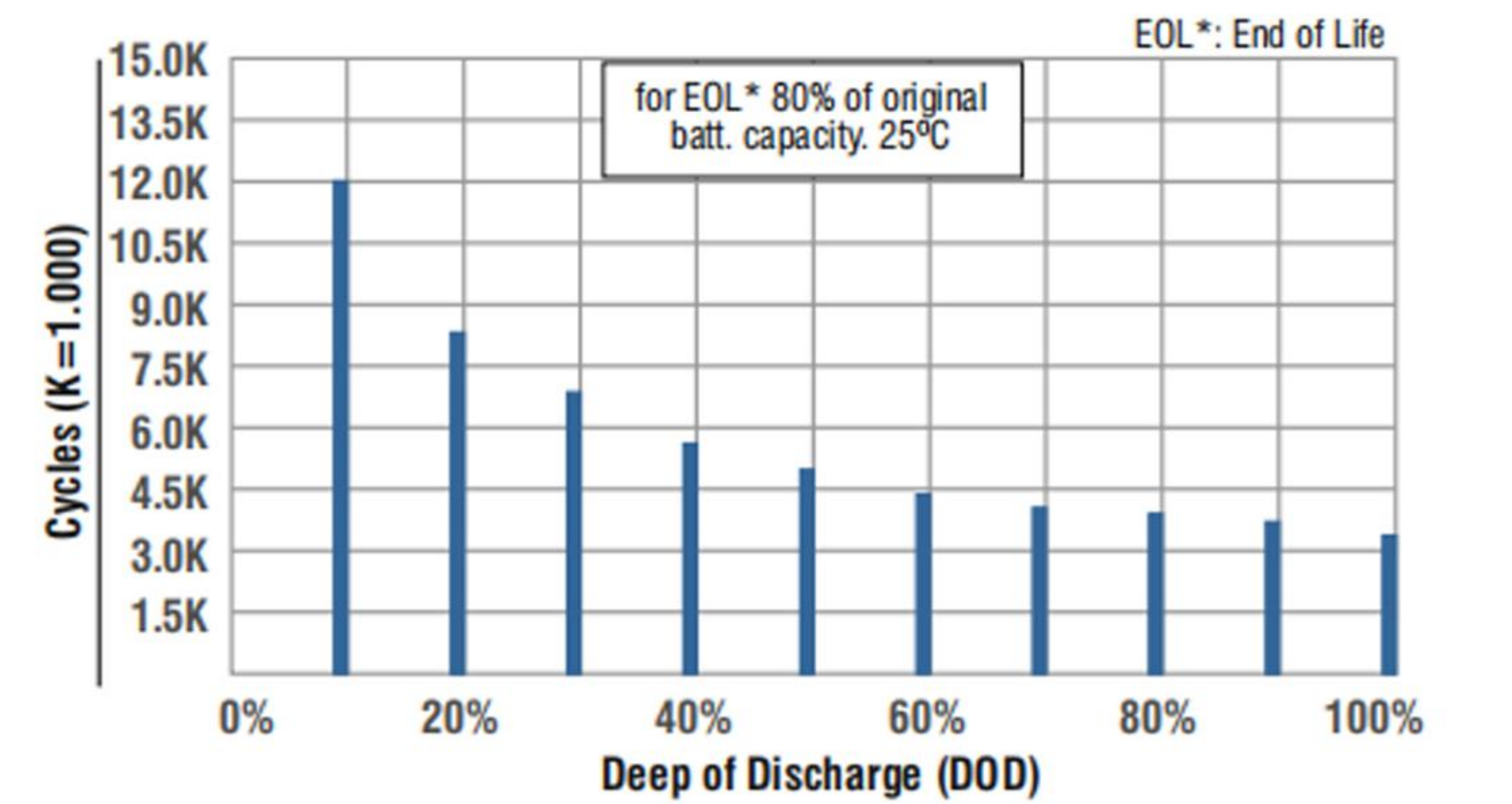
Discharging (vs discharge rates @ 25°C)



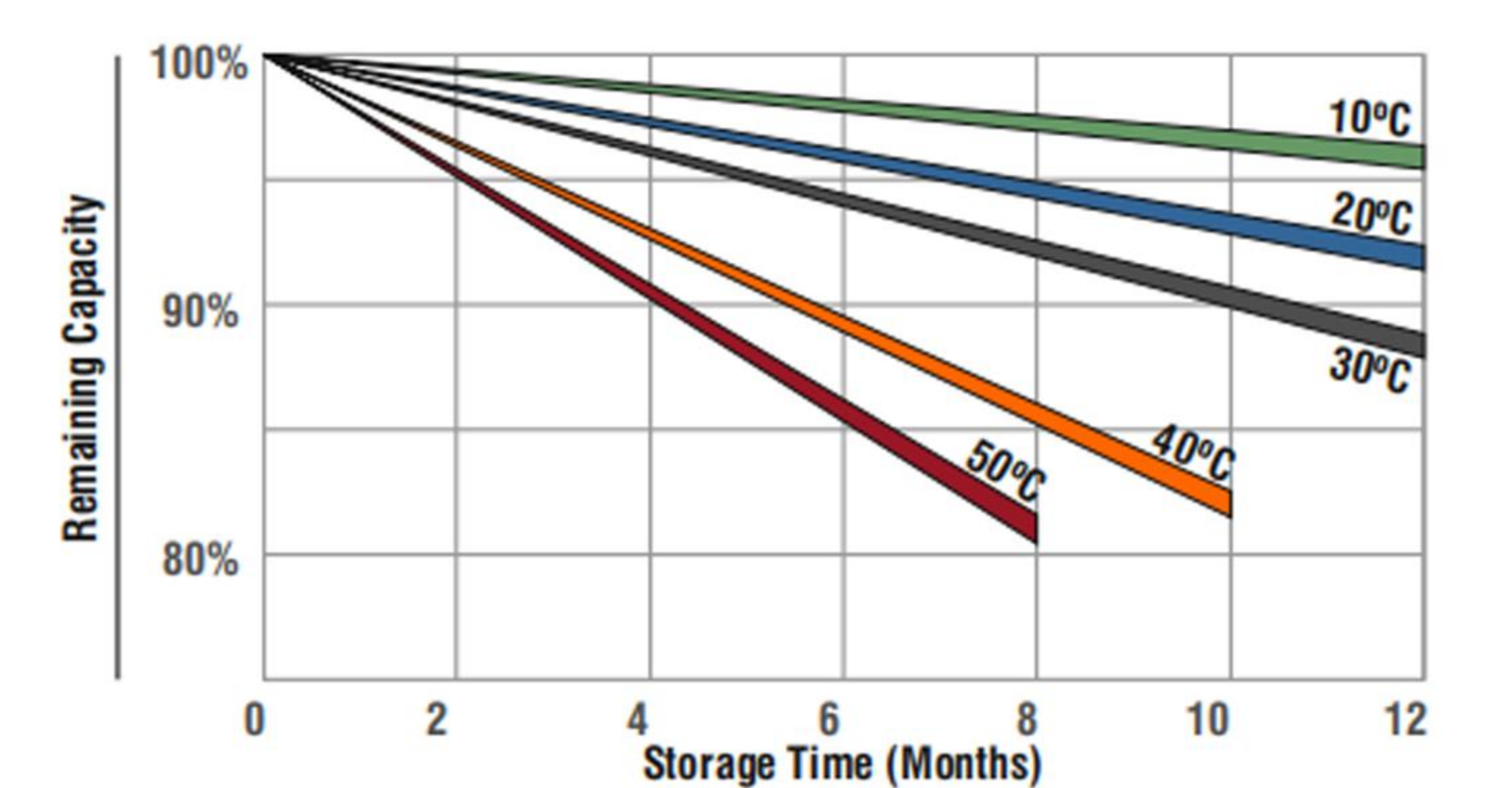
Capacity vs Temperature



Lifespan in Cycles (vs DOD)



Self Discharge (vs Temp. °C)

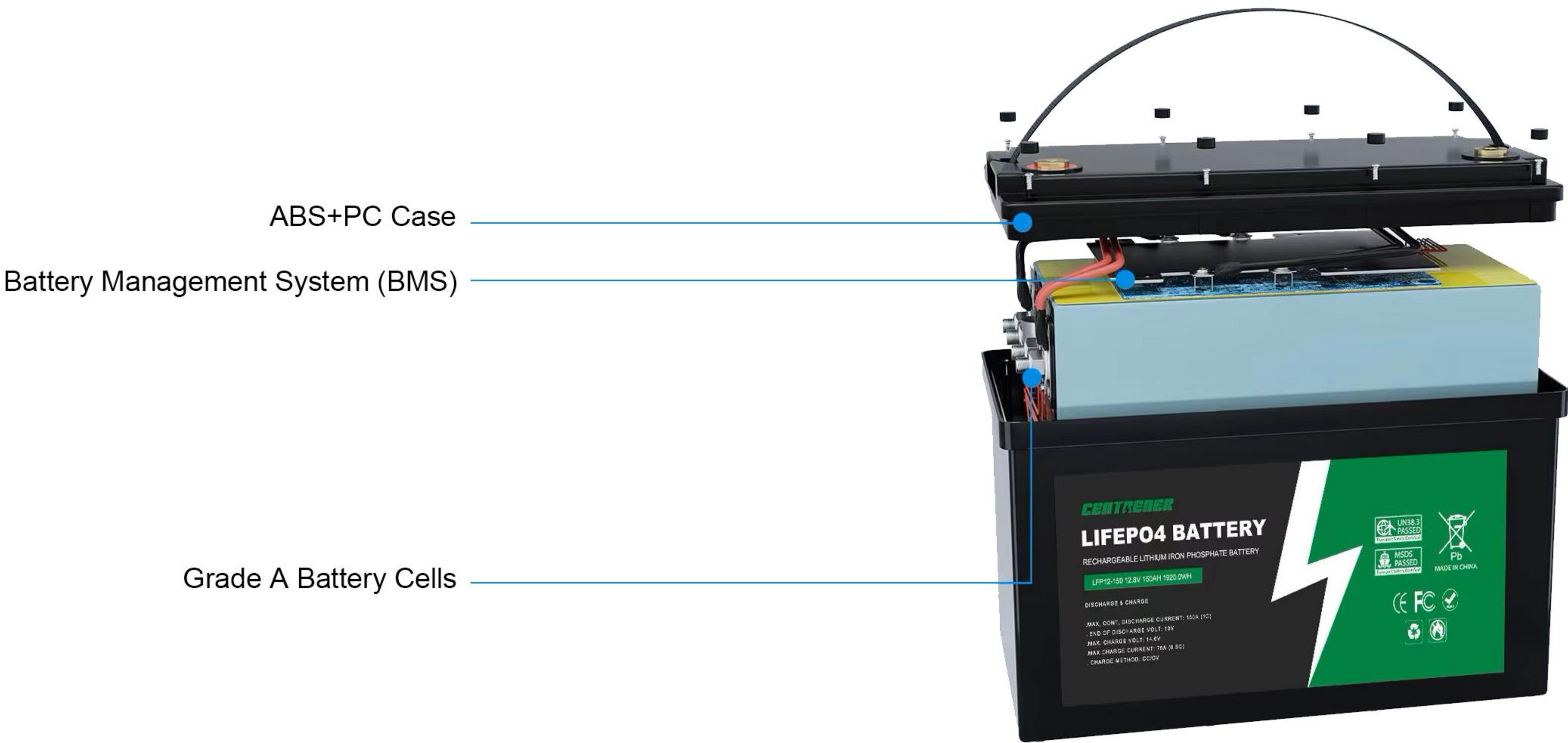


LIFEPO4 - MAINTENANCE-FREE BATTERY

12.8V - 300AH (3840WH)

CENTRENER

BATTERY STRUCTURE



SERIAL CONNECTION

Max. 4 units



PARALLEL CONNECTION

Max. 4 sets



LFP-300AH P4