

## LFP25.6-200

Lithium iron phosphate battery



## LITHIUM SERIES

### Characteristics

Electrical		
Nominal voltage	25.6V	
Nominal capacity at 5 hours rate (25°C)	200Ah	
Energy	5120Wh	
Charge Efficiency at 0.2C (25°C)	99.5%	
Discharge Efficiency at 1C (25°C)	96-99%	
Approx. internal resistance (25°C)	≤200 mΩ	
Cycle life / 0.2C 100% D.O.D	>3000 cycles	
Capacity affected by temperature	40°C	101%
	25°C	100%
	0°C	90%
	-10°C	75%
Mechanical		
Dimensions	Length	523±2mm (20.59inch)
	Width	269±2mm (10.59inch)
	Height	218±2mm (8.74inch)
	Total height	224±2mm (8.82inch)
Terminal type	T16	
Torque	12.3±2.5N.m	
Weight	39.90kg (87.96lbs)±4%	
Water & Dust resistance	IP65	
Battery container ABS UL94-HB	V-0 optional	
Cell strings	8 strings	
Temperature		
Nominal operating temperature	25°C±3 (77±5°F)	
Operating temperature range	Discharge	-20°C~60°C (-4°F~140°F)
	Charge	0°C~45°C (32°F~113°F)
	Storage	0°C~40°C (32°F~104°F)
Charging		
Charging voltage at 25°C	29.2V	
Standard charge mode (25°C±2°C, <75%RH)	0.2CA Constant Current to 29.2V, then Constant Voltage 29.2V until the current drops to 0.02CA. Rest 30 minutes, before use.	
Nominal charging current	40A	
Maximum charging current	100A	
Charging cut-off voltage	29.2V	
Discharging		
Continuous discharge current	200A	
Maximum pulse discharge current (<100ms)	650A	
Discharge cut-off voltage	22.4V	
Self discharge rate (25°C)	≤3%/month	
Communication & connection		
Communication protocol (optional)	RS485 (standard none)	
SOC	Bluetooth	
Maximum modules in paralel / series	4 in string / 6 in parallel	

### Overview

NPP Power Lithium-Iron Phosphate batteries offer superb improvement in characteristics compared to lead-acid technology. Due to the extreme cycle and calendar life, LiFePO<sub>4</sub> batteries are an excellent long-term investment for your applications. Powerful, lightweight, safe, and smart, the Lithium-Iron Phosphate batteries are the future of the energy storage you can have right now.

### Features

**Longer cycle life** - Up to 15 times longer cycle life and 5 times longer float/calendar life than lead-acid batteries.

**More capacity** - Provides up to 100% of usable energy.

**Lightweight** - 60% lighter than lead-acid batteries.

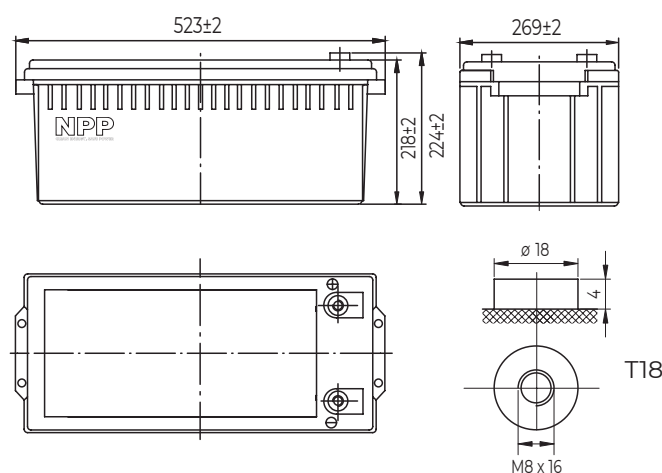
**High discharge rate** - Ability to fully discharge the battery at a high rate of discharge.

**Fast charging** - Charges much faster than conventional sealed lead-acid batteries.

**Long cycle life** - More than 3000 cycles at 100% depth of discharge.

**Intelligent BMS** - The battery management system monitors and adapts to battery conditions to maximize performance and safety.

### Dimensions & Terminal Type (mm)



### Certification & Compliances



Compliant to: IEC 62133-2

The data in this document is subject to change without notice and become contractual only after written confirmation. Please contact NPP Power for the latest available version.

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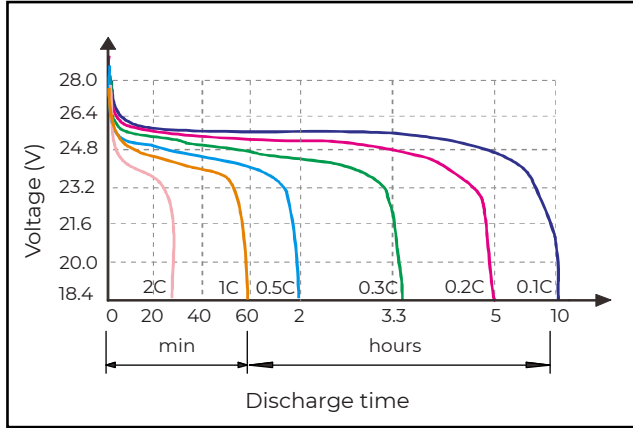
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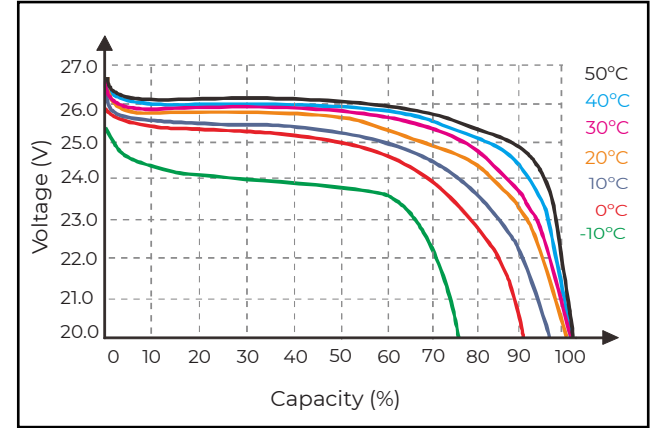
# LITHIUM

SERIES

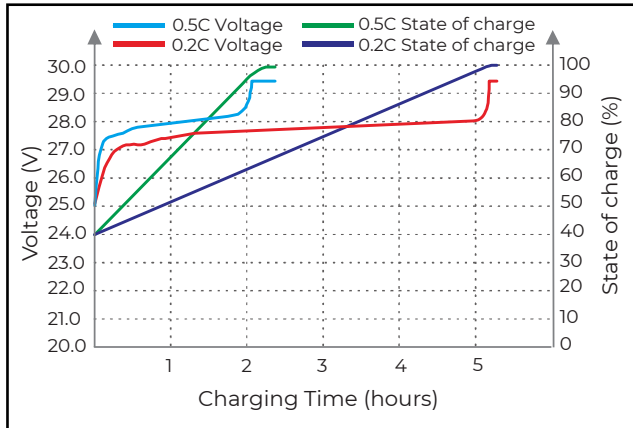
## Discharge characteristics (25°C)



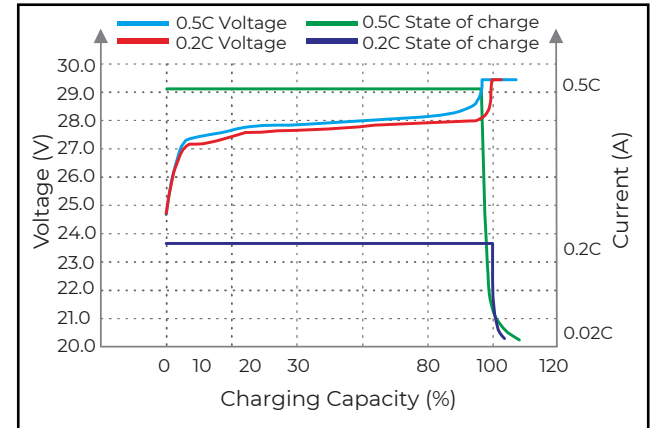
## Temperature effects on discharge (0.5C)



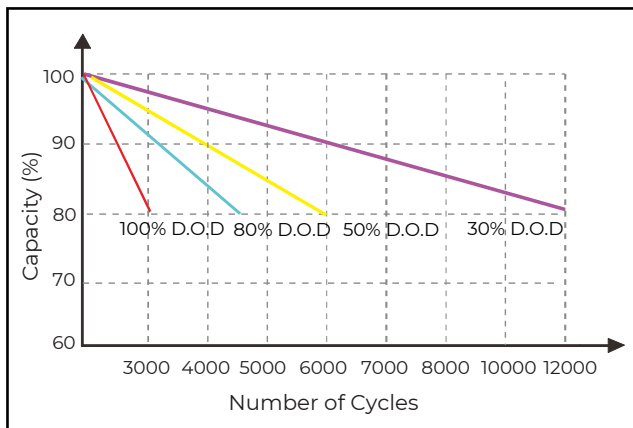
## Charging Time on S.O.C. (25°C)



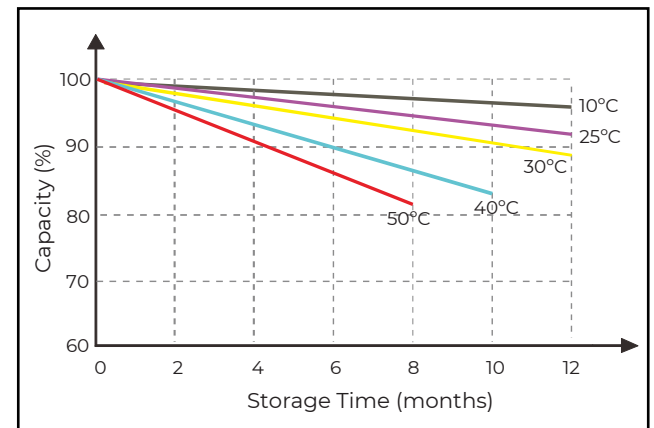
## Charge characteristics (25°C)



## Cycle life on D.O.D. (25°C)



## Self discharge characteristics



D.O.D. - depth of discharge  
S.O.C. - state of charge