



LFP12.8-30

Lithium iron phosphate battery

Characteristics

enaracteristic		
Electrical		
Nominal voltage		12.8V
Nominal capacity at 5 hours rate (25°C)		30Ah
Energy		384Wh
Charge Efficiency at 0.2C (25°C)		99.5%
Discharge Efficiency at 1C (25°C)		96-99%
Approx. internal resistance (25°C)		≤150.0 mΩ
Cycle life / 0.2C 100% D.O.D		>2000 cycles
Capacity affected by temperature	40°C	101%
	25°C	100%
	0°C	90%
	-10°C	
	-10°C	75%
меспапісаі		101.15 (517, 1)
Dimensions	Length	181±1.5mm (7.13inch)
	Width	77±1mm (3.03inch)
	Height	168±1mm (6.61inch)
	Total height	168±1mm (6.61inch)
Terminal type		T12
Torque		3.0±0.6N.m
Weight		3.46kg (7.63lbs)±4%
Water & Dust resistance		IP65
Battery container ABS UL94-HB		V-0 optional
Cell strings		4 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		14.6V
Standard charge mode (25°C±2°C, <75%RH)		0.2CA Constant Current to 14.6V, then Constant Volt- age 14.6V until the current drops to 0.02CA. Rest 30 minutes, before use.
Nominal charging current		6A
Maximum charging current		15A
Charging cut-off voltage		14.6V
Discharging		
Continuous discharge current		30A
Maximum pulse discharge current (<100ms)		100A
Discharge cut-off voltage		11.2V
Self discharge rate (25°C)		≤3%/month
Comunication &		
Communication protocol (optional) N/A		
SOC (optional)		LED/Bluetooth
Maximum modules in paralel or series		4 in string, 6 in parallel
		<u>.</u>

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, LiFePO4 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.

SERIES

ITHIUM

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.

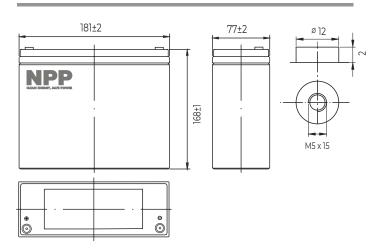
High discharge rate - Ability to fully discharge the battery at a high rate of discharge.

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 63133-2

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.

Guangdong NPP New Energy Co., Ltd.

No.3 Hongli Road, Miaobian Community, Liaobu Town, Dongguan, Guangdong Province, China.

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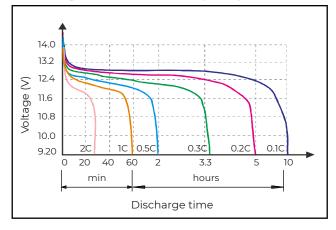
Guangzhou NPP Power Co., Ltd.

No.67 Lianglong Road, Huashan Town, Huadu District, Guangzhou, China.

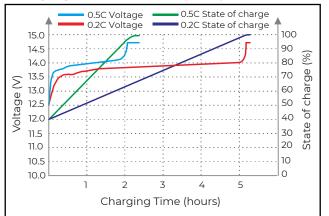
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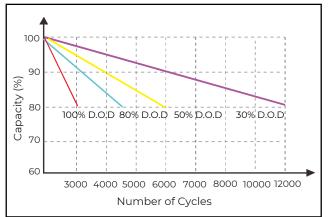
Discharge characteristics (25°C)



Charging Time on S.O.C. (25°C)

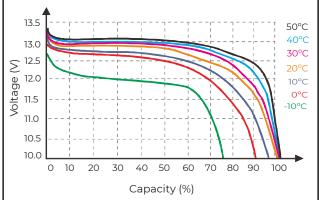


Cycle life on D.O.D. (25°C)

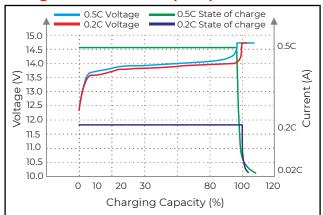


D.O.D. - depth of discharge S.O.C. - state of charge

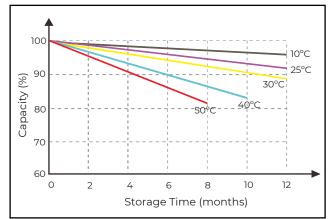




Charge characteristics (25°C)



Self discharge characteristics



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