

LFP12.8-8





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Characteristic	S	The state of the s
Electrical	_	
Nominal voltage		12.8V
Nominal capacity at 5 hours rate (25°C)		8Ah
Energy		102Wh
Charge Efficiency at 0.2C (25°C)		99.5%
Discharge Efficiency at 1C (25°C)		96-99%
Approx. internal resistance (25°C)		≤150 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		
	Length	151±1.5mm (5.94inch)
Dimensions	Width	65±1mm (2.56inch)
	Height	97±1mm (3.82inch)
	Total height	100±1mm (3.94inch)
Terminal type	_ rotarrio.grit	T2
Torque		N/A
Weight		1.05kg (2.31lbs)±4%
Water & Dust resistance		IP64
Battery container ABS UL94-HB		V-0 optional
Cell strings		4 strings
Temperature		4 3011193
Nominal operating	temperature	25°C±3 (77±5°F)
Operating temperature range	Discharge	-20°C~60°C (-4°F~140°F)
		0°C~45°C (32°F~113°F)
	Charge	
	Storage	0°C~40°C (32°F~104°F)
Charging voltage at 25°C		37.677
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		2A
Maximum charging current		4A
Charging cut-off voltage		14.6V
Discharging		
Continuous discharge current		20A
Maximum pulse discharge current (<100ms)		24A
Discharge cut-off voltage		11.2V
Self discharge rate (25°C)		≤3%/month
Comunication &	connection	
Communication p		N/A
SOC (optional)		N/A
Maximum modules in paralel or series		1 string 1 parallel
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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.

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.

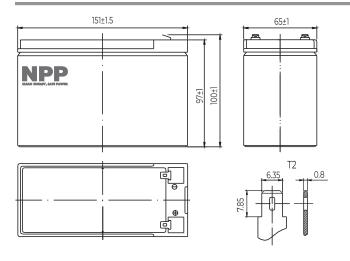
High discharge rate - Ability to fully discharge the battery at a high rate of discharge.

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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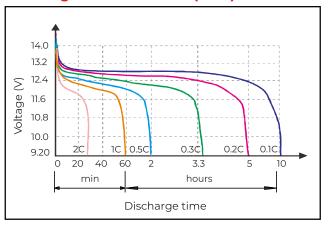
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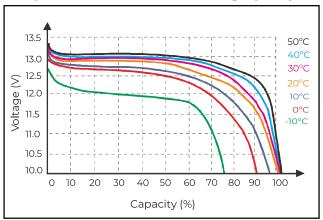


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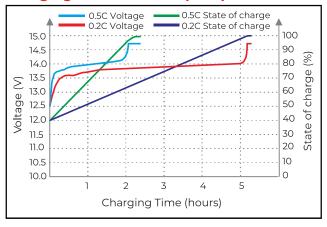
Discharge characteristics (25°C)



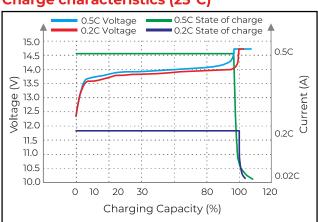
Temperature effects on discharge (0.5C)



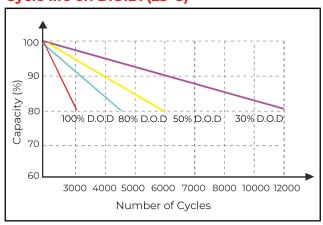
Charging Time on S.O.C. (25°C)



Charge characteristics (25°C)



Cycle life on D.O.D. (25°C)



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

Self discharge characteristics

