

LFP12.8-150





ITHIUM

SERIES

Characteristic	S	
Electrical		
Nominal voltage		12.8V
Nominal capacity at 5 hours rate (25°C)		150Ah
Energy		1920Wh
Charge Efficiency at 0.2C (25°C)		99.5%
Discharge Efficiency at 1C (25°C)		96-99%
Approx. internal resistance (25°C)		≤50.0 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	1.0	7570
	Length	502±2mm (13.76inch)
Dimensions	Width	186±2mm (7.32inch)
	Height	243±2mm (9.56inch)
	Total height	243±2mm (9.56inch)
Terminal type	Total Height	T16
		12.3+2.5N.m
Torque Weight		16.9kg (37.26lbs)±4%
Water & Dust resistance		1P65
Battery container ABS UL94-HB		
, , , , , , , , , , , , , , , , , , ,		V-0 optional
Cell strings		4 strings
Temperature		2500.7 (777.505)
Operating temperature range		25°C±3 (77±5°F)
	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		30A
Maximum charging current		75A
Charging cut-off voltage		14.6V
Discharging		
Continuous discharge current		150A
Maximum pulse discharge current (<100ms)		450A
Discharge cut-off voltage		11.2V
Self discharge rate (25°C)		≤3%/month
Comunication &	connection	
Communication protocol (optional)		RS485 (standard none)
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.

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.

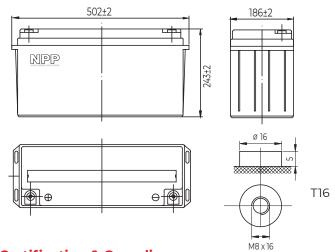
High discharge rate - Ability to fully discharge the battery at a high rate of discharge.

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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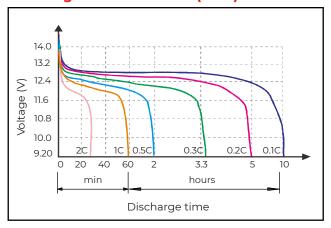
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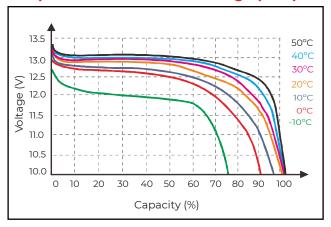


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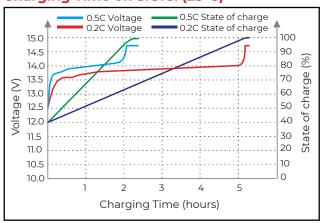
Discharge characteristics (25°C)



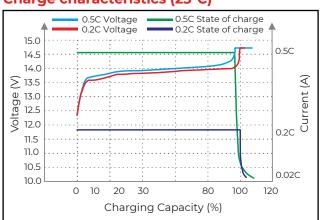
Temperature effects on discharge (0.5C)



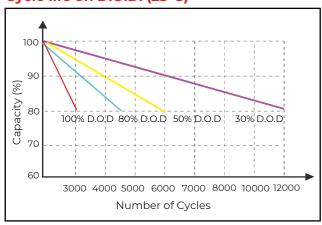
Charging Time on S.O.C. (25°C)



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

