



# ITHIUM

SERIES

## LFP25.6-100

Characteristi	CS	
Electrical		
Nominal voltage		25.6V
Nominal capacity	at 5 hours rate (25°C)	100Ah
Energy		2560Wh
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	<u>'</u>	
	Length	483±2mm (19.09inch)
Dimensions	Width	170±2mm (6.77inch)
	Height	240±2mm (9.45inch)
	Total height	240±2mm (9.45inch)
Terminal type	, ,	T16
Torque		12.3±2.5N.m
Weight		21.5kg (47.39lbs)±4%
Water & Dust resistance		IP65
Battery container ABS UL94-HB		V-0 optional
Cell strings		8 strings
Temperature		
Nominal operating	a 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	Julia	0 0 10 0 (321 1011)
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 Volt- age 29.2V until the current drops to 0.02CA. Rest 30 minutes, before use.
Nominal charging current		20A
Maximum charging current		50A
Charging cut-off voltage		29.2V
Discharging		
Continuous discharge current		100A
	ischarge current (<100ms)	300A
Maximum pulse d		00 01
Discharge cut-off	voltage	22.4V
		≤3%/month
Discharge cut-off	e (25°C)	
Discharge cut-off Self discharge rate	e (25°C) & connection	
Discharge cut-off Self discharge rate Comunication 8	e (25°C) & connection	≤3%/month

#### **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.

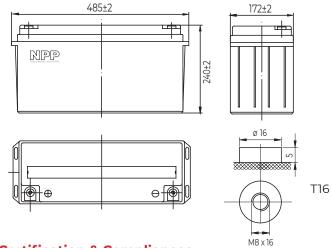
High discharge rate - Ability to fully discharge the battery at a high rate of discharge.

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.

#### **Guangdong NPP New Energy Co., Ltd.**

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

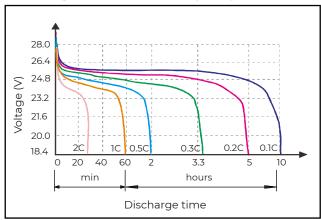
#### Guangzhou NPP Power Co., Ltd.

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

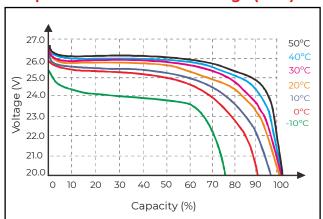
Email: info@nppower.com.cn Tel: +86 20 37887 390



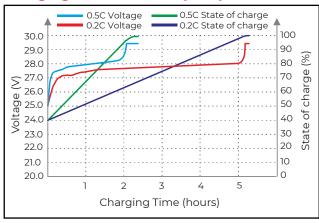
## Discharge characteristics (25°C)



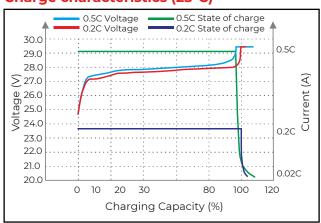
#### Temperature effects on discharge (0.5C)



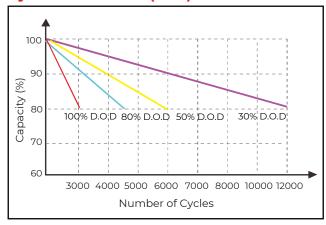
### Charging Time on S.O.C. (25°C)



#### 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

