Guangdong NPP New Energy Co., Ltd.



NSFG100P10 51.2V100Ah

LiFePO₄ Lithium Battery

Longer Cycle Life: Offers up to 15 times longer cycle life and 5 times longer float/calendar life than lead acid battery.

Lighter Weight: About 40% weight of a comparable lead acid battery, save up to 60% in weight.

Quick Charge: Short charge time compared with lead acid battery.

Low Self-Discharge: Lower self-discharge compared with lead acid battery, longer storage time without recharging.

Superior Safety: Multi-protection methods built inside to protect the battery from overcharge, over discharge and short circuit situation.

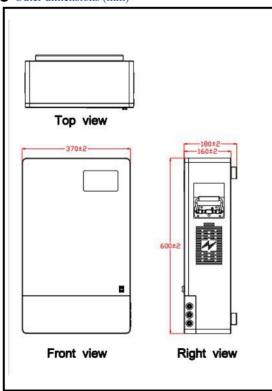
High Efficient: Higher round-trip energy efficiency of the average (92%) than lead acid battery 80% (discharge from 100% to 0% and back to 100% charged).



• Specifications

Nominal voltage		48V
Nominal capacity		100Ah
Dimensions	Length	370±2mm (13.78inch)
	Width	160±2mm (7.48inch)
	Height	600±2mm (19.69inch)
	Total height	600±2mm (19.69inch)
Approx. weight		46.5kg (102.53lbs)±2kg

• Outer dimensions (mm)



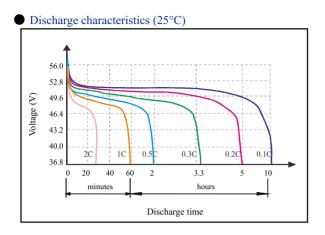
Rated Voltage 51.2V (mm)Rated Capacity (C5) 100Ah@25°C Electrical Energy 5120Wh Parameters Months Self Discharge <3% (25°C) Charge Efficiency 99.5%@ 0.2C 96-99%@ 1C Discharge Efficiency Terminal Diameter M8 ⊴00mΩ Internal resistance (Fully charged, 25°C) Cycle life >3000 cycles @ 0.2C 100%D.O.D 40°C 101% Capacity 25°C 100% affected by 90% 0°C temperature 75% -10°C Nominal operating temperature 25°C± 3°C (77°F± 5°F) - 20°C~ 60°C (-4°F ~ 140°F) Discharge Operating temperature Charge $0^{\circ}C \sim 45^{\circ}C (32^{\circ}F \sim 113^{\circ}F)$ range $0^{\circ}C \sim 40^{\circ}C (32^{\circ}F \sim 104^{\circ}F)$ Storage Water Dust Resistance **IP50** 58.4V Charge Voltage 0.2CA Constant Current to 58.4V, Standard Charge Mode then Constant Voltage 58.4V (25°C±2°C, <75%RH) until the current drops to 0.02CA, before use, rest 30 minutes Charge Current 20A Maximum Charge Current 50A 59.2V Charge Cut off Voltage Continuous Discharge Current 100A Maximum Pulse Current 150A (<1S) Discharge Cut Off Voltage 44.8V RS485/RS232/CAN Communicate Protocol (optional) SOC (optional) Screen/LED/PC Software Application connection 1 string 8 parallel Cells 16 Strings Mechanical Metal Container

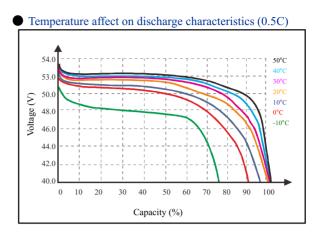
Note 1: Please always refer to the latest edition of our technical manual that published on our website to ensure safe and efficient operation

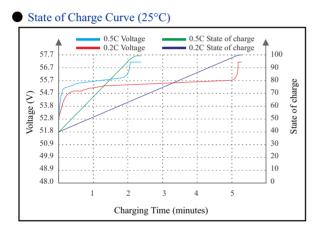
Characteristics

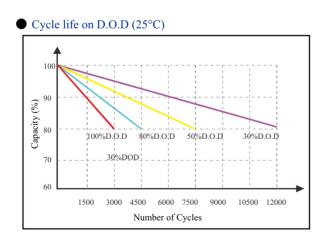
Guangdong NPP New Energy Co., Ltd.



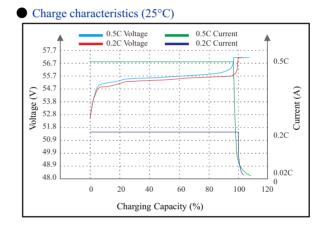


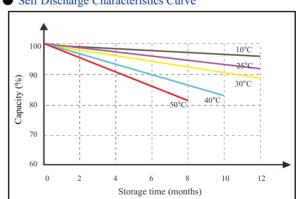






Note 2: The above curves are based on laboratory testing data @ $25^{\circ}C 40\%$ RH.





Self Discharge Characteristics Curve

