

NSFM018J10 240V18Ah

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).



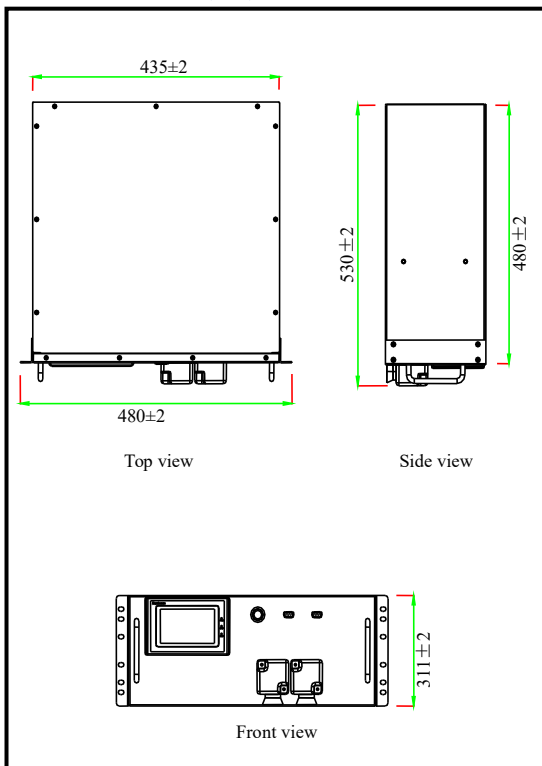
Specifications

Nominal voltage		240V
Nominal capacity		18Ah
Dimensions	Length	530±2mm (20.86inch)
	Width	480±2mm (18.89inch)
	Height	311±2mm (12.24inch)
	Total height	311±2mm (12.24inch)
Approx. weight		56kg (123.45lbs)±2.5kg

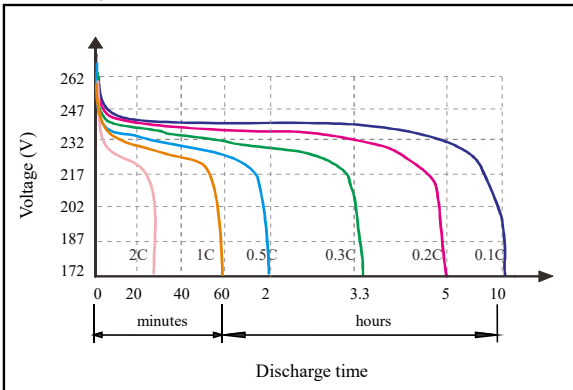
Characteristics

Electrical Parameters (25°C)	Rated Voltage	240V
	Rated Capacity (C ₅)	18Ah@25°C
	Energy	4320Wh
	Months Self Discharge	<3%
	Charge Efficiency	99.5%@ 0.2C
	Discharge Efficiency	96-99%@ 1C
Terminal Diameter		M8
Internal resistance (Fully charged, 25°C)		≤250mΩ
Cycle life		>3000 cycles @ 0.2C 100%D.O.D
Capacity affected by temperature	40°C	101%
	25°C	100%
	0°C	90%
	-10°C	75%
Nominal operating temperature		25°C±3°C (77°F±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)
Water Dust Resistance		IP50
Charge Voltage		273.7V
Standard Charge Mode (25°C±2°C, <75%RH)		0.2CA Constant Current to 273.7V, then Constant Voltage 273.7V until the current drops to 0.02CA, before use, rest 30 minutes
Charge Current		3.6A
Maximum Charge Current		9A
Charge Cut off Voltage		273.7V
Continuous Discharge Current		18A
Maximum Pulse Current		54A (<10s)
Discharge Cut Off Voltage		210V (min 180V)
Communicate Protocol (optional)		RS485/RS232
SOC (optional)		LED/PC Software/Screen
Application connection		1 string 1 parallel
Mechanical	Cells	75 Strings LiFePO ₄
	Container	Metal

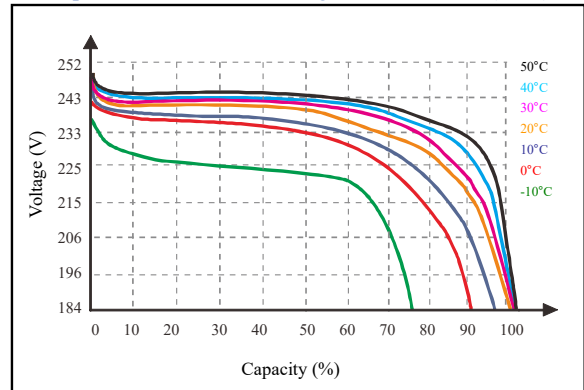
Outer dimensions (mm)



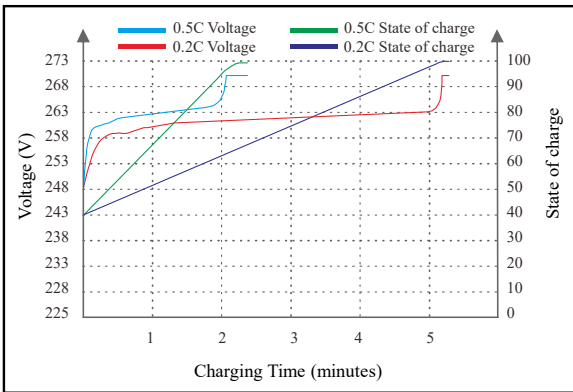
● Discharge characteristics (25°C)



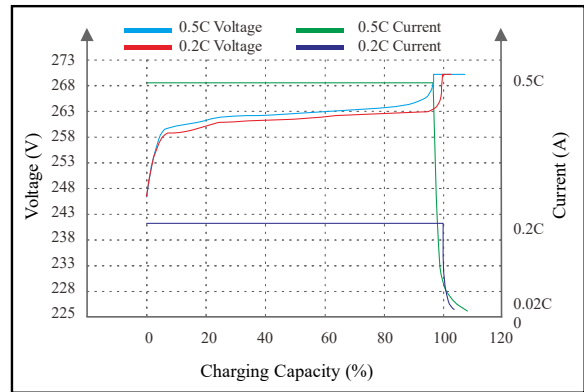
● Temperature affect on discharge characteristics (0.5C)



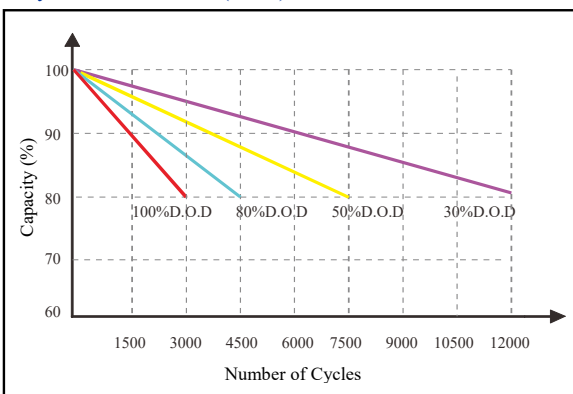
● State of Charge Curve (25°C)



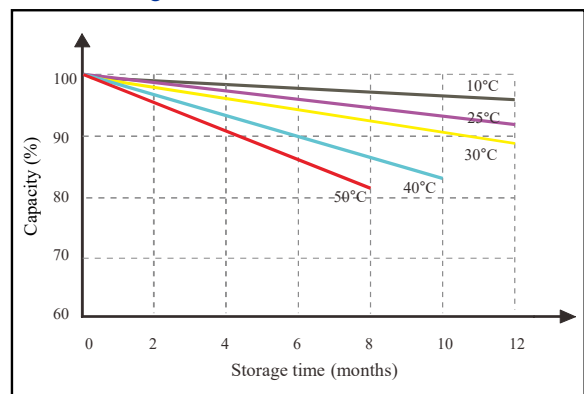
● Charge characteristics (25°C)



● Cycle life on D.O.D (25°C)



● Self Discharge Characteristics Curve



Note 2: The above curves are based on laboratory testing data @ 25°C 40%RH.