

## NSFQ400J06 115V400Ah

### LiFePO<sub>4</sub> 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).



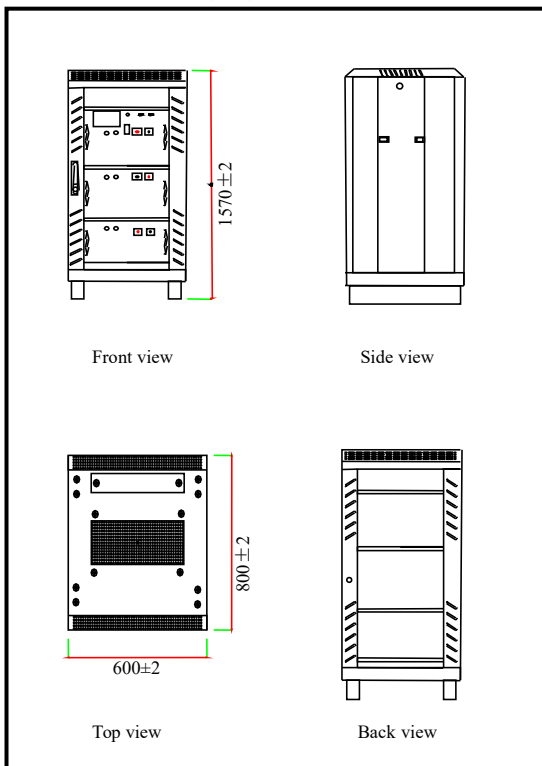
### Specifications

Nominal voltage		115V
Nominal capacity		400Ah
Dimensions	Length	600±2mm (23.62inch)
	Width	800±2mm (31.49inch)
	Height	1500±2mm (59.06inch)
	Total height	1570±2mm (61.81inch)
Approx. weight		500.0kg (1102.3lbs)±20kg

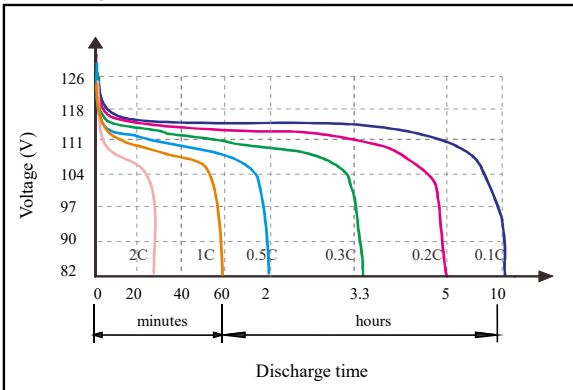
### Characteristics

Electrical Parameters (25°C)	Rated Voltage	115V
	Rated Capacity (C <sub>5</sub> )	400Ah@25°C
	Energy	46000Wh
	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		131V
Standard Charge Mode (25°C±2°C, <75%RH)		0.2CA Constant Current to 131V, then Constant Voltage 131V until the current drops to 0.02CA, before use, rest 30 minutes
Charge Current		80A
Maximum Charge Current		200A
Charge Cut off Voltage		131V
Continuous Discharge Current		200A
Maximum Pulse Current		400A (<10ms)
Discharge Cut Off Voltage		99V (min 180V)
Communicate Protocol (optional)		RS485/RS232
SOC (optional)		LED/PC Software/Screen
Application connection		1 string 1 parallel
Mechanical	Cells	36 Strings LiFePO4
	Container	Metal

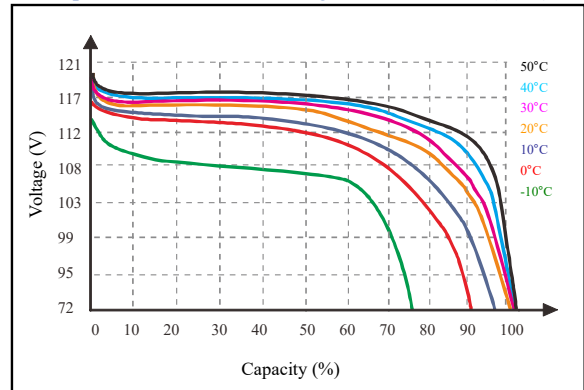
### Outer dimensions (mm)



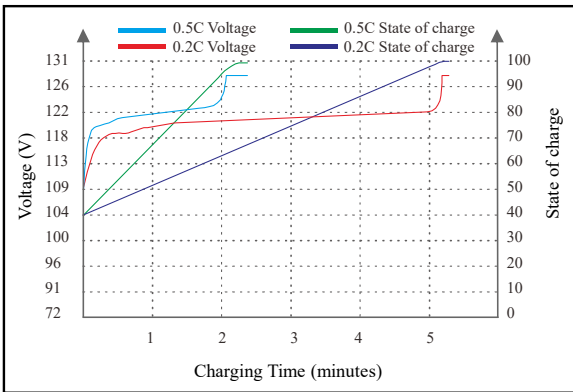
### ● Discharge characteristics (25°C)



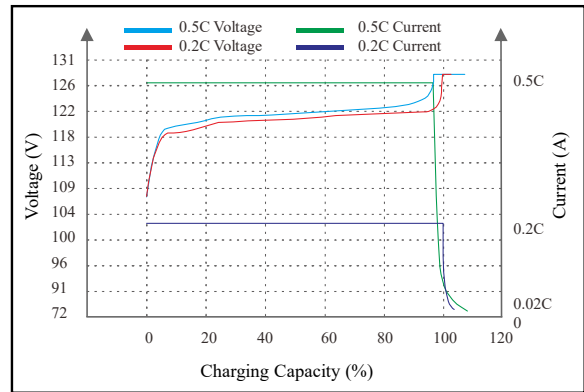
### ● Temperature affect on discharge characteristics (0.5C)



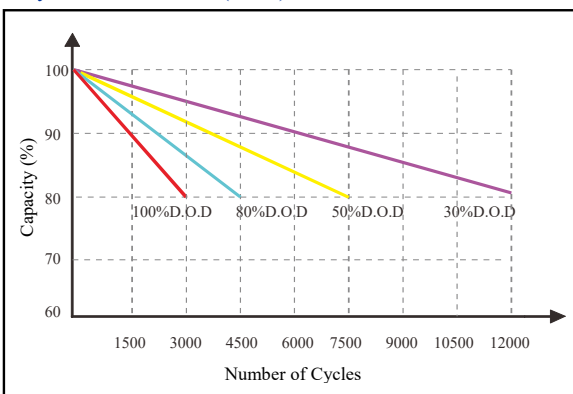
### ● State of Charge Curve (25°C)



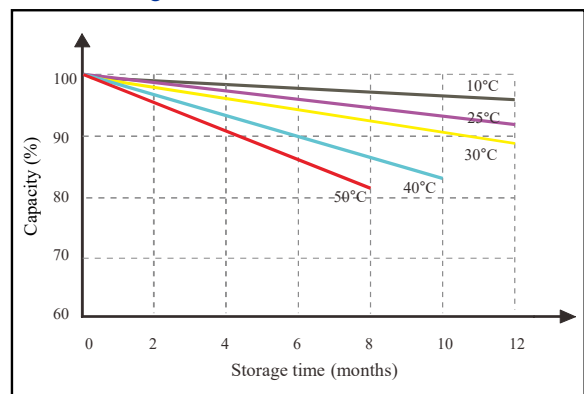
### ● Charge characteristics (25°C)



### ● 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.