

## NSFV100J10 768V100Ah

### 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).



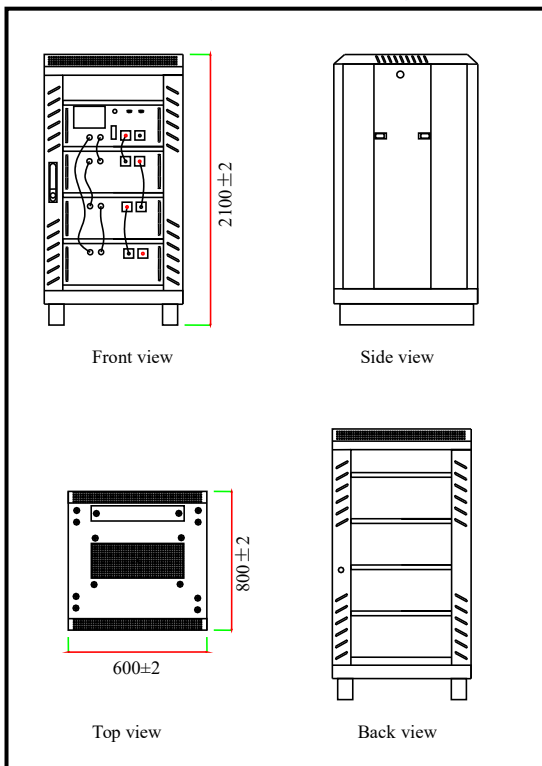
### Specifications

Nominal voltage		768V
Nominal capacity		100Ah
Dimensions x 2	Length	800±2mm (31.49inch)
	Width	600±2mm (23.62inch)
	Height	2000±2mm (78.74inch)
	Total height	2100±2mm (82.68inch)
Approx. total weight		1090.0kg (2403.80lbs)±70kg

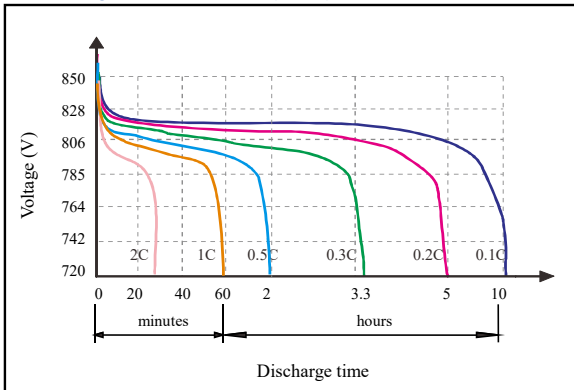
### Characteristics

Electrical Parameters (25°C)	Rated Voltage	768V
	Rated Capacity (C <sub>5</sub> )	100Ah@25°C
	Energy	76.8kwh
	Months Self Discharge	<3%
	Charge Efficiency	99.5%@ 0.2C
	Discharge Efficiency	96-99%@ 1C
Terminal Diameter		M8
Internal resistance (Fully charged, 25°C)		≤280mΩ
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		850V
Standard Charge Mode (25°C±2°C, <75%RH)		0.2CA Constant Current to 850V, then Constant Voltage 850V until the current drops to 0.02CA, before use, rest 30 minutes
Charge Current		20A
Maximum Charge Current		50A
Charge Cut off Voltage		720V
Continuous Discharge Current		100A
Maximum Pulse Current		150A (<2S, Adjustable)
Discharge Cut Off Voltage		720V
Communicate Protocol (optional)		RS485/RS232/CAN
SOC (optional)		Screen/LED/PC Software
Application connection		1 string 1 parallel
Mechanical	Cells Qty	240 Strings
	Container	Metal

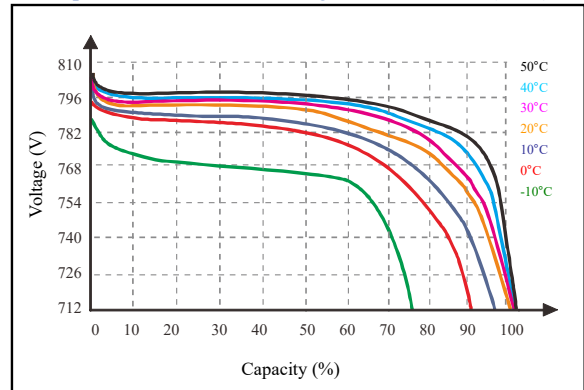
### Outer dimensions (mm, for one cabinet)



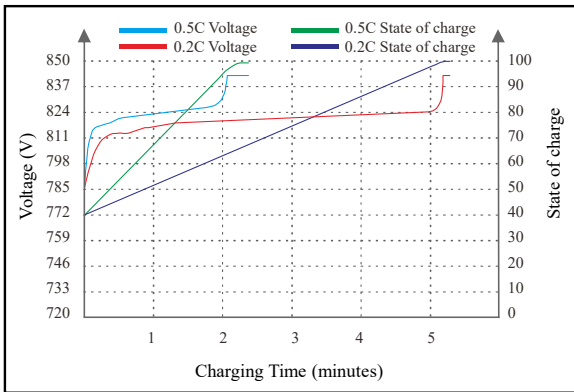
### ● Discharge characteristics (25°C)



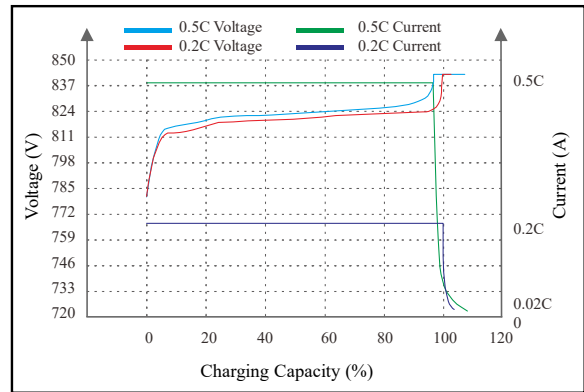
### ● Temperature affect on discharge characteristics (0.5C)



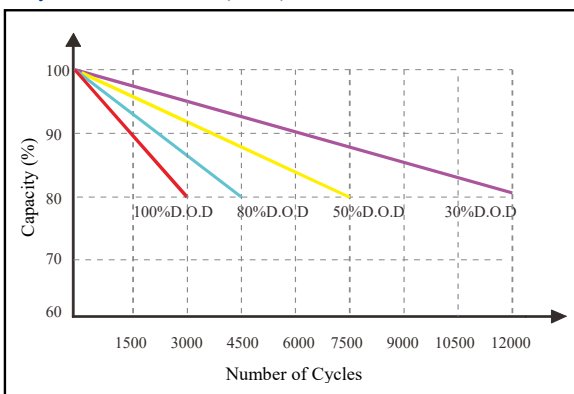
### ● State of Charge Curve (25°C)



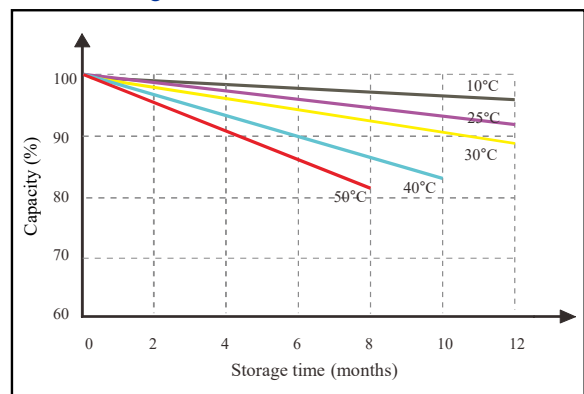
### ● Charge characteristics (25°C)



### ● 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.