

NSFE100Q10 25.6V100Ah

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.

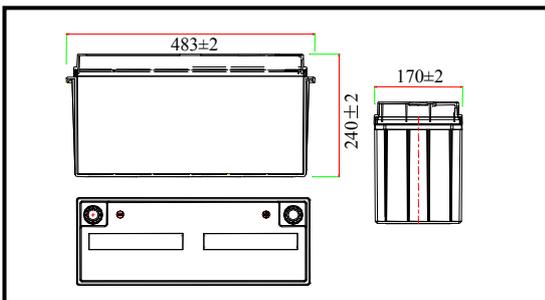
High Efficient: Higher round-trip energy efficiency of the average (92%) than lead acid battery 80% (discharge from 100% to 0% and back to 100% charged).



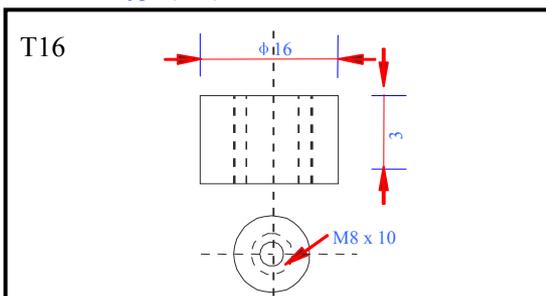
Specifications

Nominal voltage		25.6V
Nominal capacity		100Ah
Dimensions	Length	483±2mm (19.09inch)
	Width	170±2mm (6.77inch)
	Height	240±2mm (9.45inch)
	Total height	240±2mm (9.45inch)
Approx. weight		22.6kg (47.39lbs)±4%

Outer dimensions (mm)



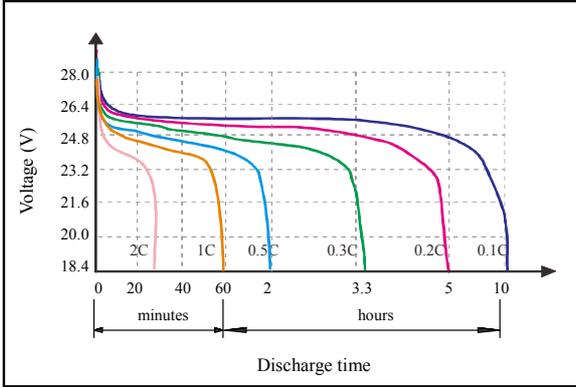
Terminal type (mm)



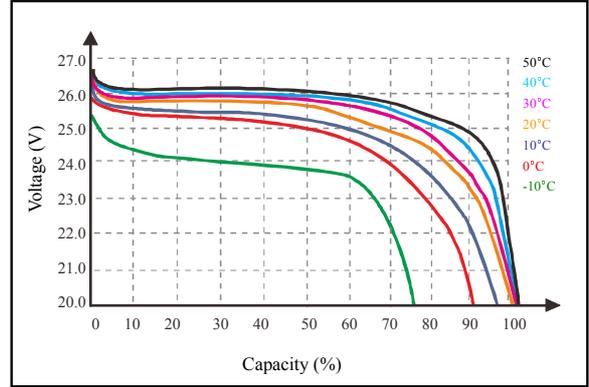
Characteristics

Electrical Parameters (25°C)	Rated Voltage	25.6V
	Rated Capacity (C ₅)	100Ah@25°C
	Energy	2560Wh
	Months Self Discharge	<3%
	Charge Efficiency	99.5%@ 0.2C
	Discharge Efficiency	96-99%@ 1C
Terminal type		T16
Internal resistance (Fully charged, 25°C)		≤200mΩ
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		IP65
Charge Voltage		29.2V
Standard Charge Mode (25°C±2°C, <75%RH)		0.2CA Constant Current to 29.2V, then Constant Voltage 29.2V until the current drops to 0.02CA, before use, rest 30 minutes
Charge Current		20A
Maximum Charge Current		50A
Charge Cut off Voltage		29.2V
Continuous Discharge Current		100A
Maximum Pulse Current		300A (<100ms)
Discharge Cut Off Voltage		22.4V
Communicate Protocol (optional)		(default none)SMBus/RS485/RS232
SOC (optional)		(default none) LED
Application connection		1 string 1 parallel
Mechanical	Cells	8 Strings
	Container	ABS

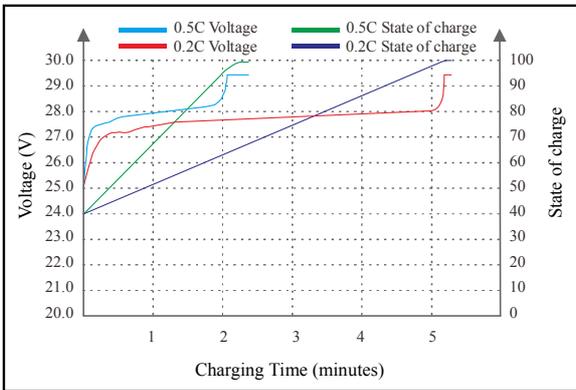
● Discharge characteristics (25°C)



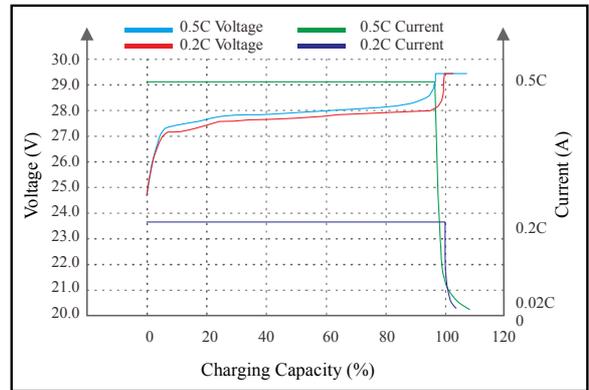
● Temperature affect on discharge characteristics (0.5C)



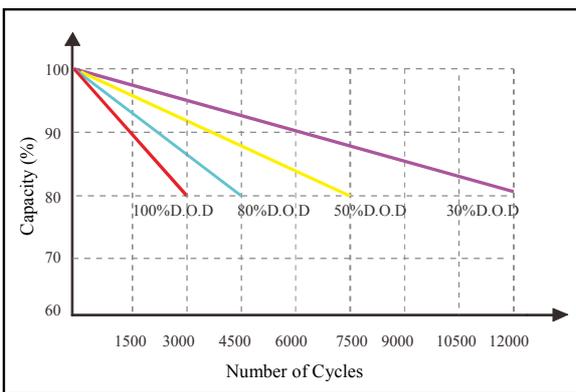
● State of Charge Curve (25°C)



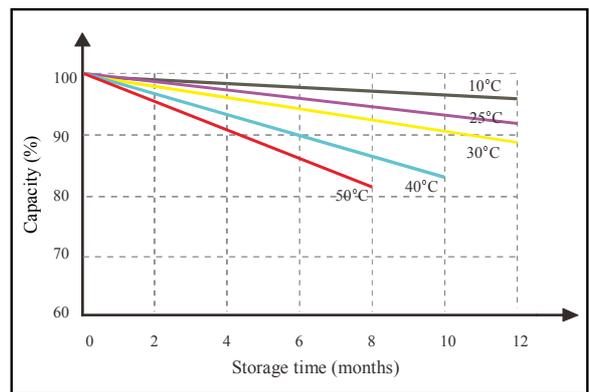
● Charge characteristics (25°C)



● 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.