

NSFD065S15 12V65Ah

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.

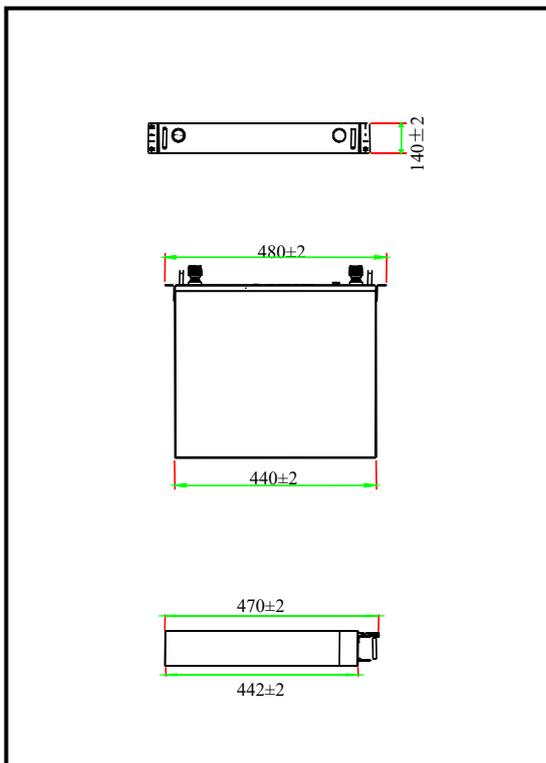
High Efficient: Higher round-trip energy efficiency of the average (92%) than lead acid battery 80% (discharge from 100% to 0% and back to 100% charged).



Specifications

Nominal voltage		12V
Nominal capacity		65Ah
Dimensions	Length	440±2mm (17.32inch)
	Width	442±2mm (17.40inch)
	Height	140±2mm (5.51inch)
	Total height	140±2mm (5.51inch)
Approx. weight		13.5kg (29.76lbs)±1.5kg

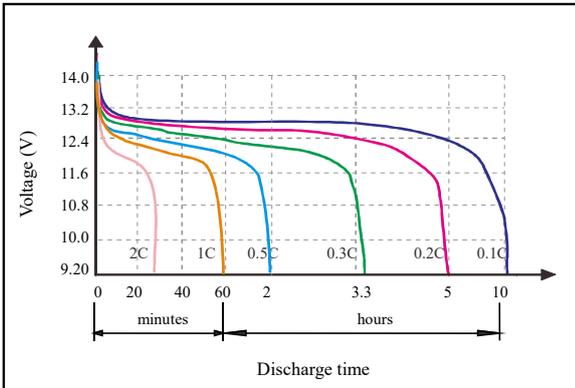
Outer dimensions (mm)



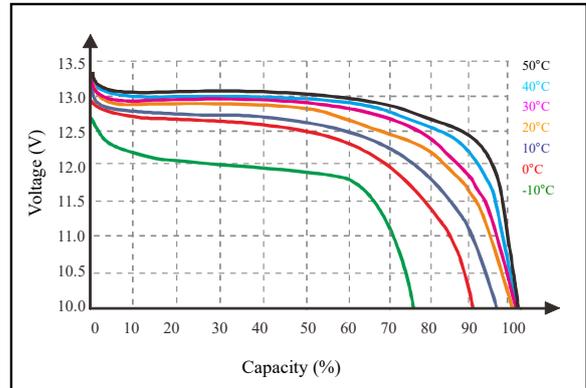
Characteristics

Electrical Parameters (25°C)	Rated Voltage	12.8V
	Rated Capacity (C _s)	65Ah@25°C
	Energy	832Wh
	Months Self Discharge	<3%
	Charge Efficiency	99.5%@ 0.2C
	Discharge Efficiency	96-99%@ 1C
Terminal Diameter		M10
Internal resistance (Fully charged, 25°C)		≤200mΩ
Cycle life (80% EOL)		>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		14.6V
Standard Charge Mode (25°C±2°C, <75%RH)		0.2CA Constant Current to 14.6V, then Constant Voltage 14.6V until the current drops to 0.02CA, before use, rest 30 minutes
Charge Current		13A
Maximum Charge Current		32.5A
Charge Cut off Voltage		14.6V
Continuous Discharge Current		100A
Maximum Pulse Current		195A (<5s)
Discharge Cut Off Voltage		11.2V
Communicate Protocol (optional)		None
SOC (optional)		Default None(Bluetooth app)
Application connection		1 string 1 parallel
Mechanical	Cells	4 Strings
	Container	Metal

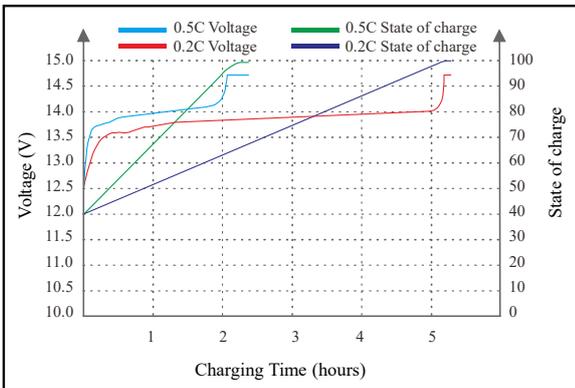
● Discharge characteristics (25°C)



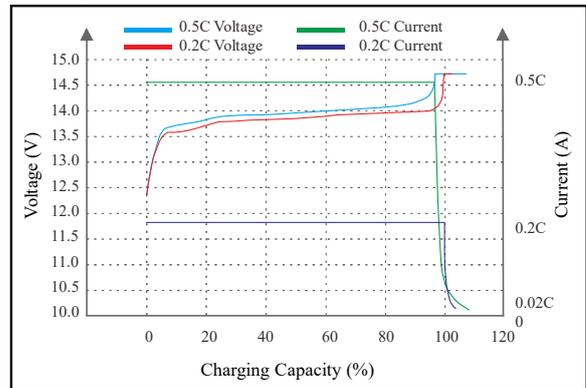
● Temperature affect on discharge characteristics (0.5C)



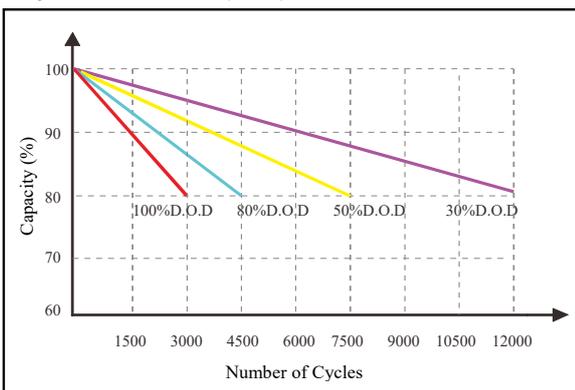
● State of Charge Curve (25°C)



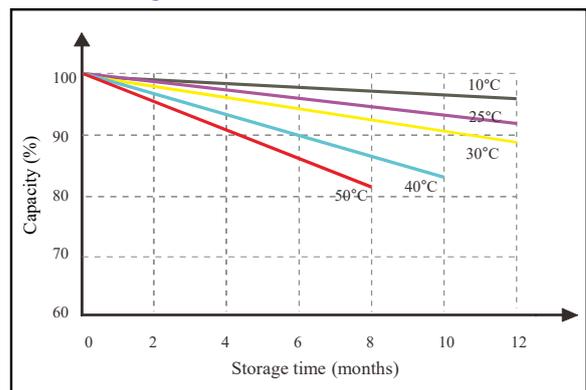
● Charge characteristics (25°C)



● 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.