

### SPECIFICATIONS

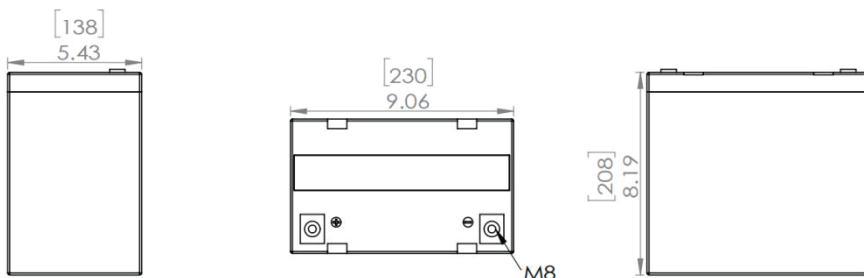
Nominal Voltage	12.8V
Rated Capacity	72Ah @1C
Circuit Protection	Over charge, Over discharge, Over current, Over temp, Short, Balance
Cycle Life	3000 times cycles @100%DOD and 6000 times @80% DOD
Monthly Self Discharge	<3%
Efficiency of Charge	100% @0.2C
Efficiency of Discharge	96~100% @1C
Charge Voltage	14.6±0.2V
Standard Charge Current	12A
Max Charge Current	50A
Standard Discharge Current	12A
Max. Continuous Current	60A
Discharge Cut-off Voltage	10V
Charge Temperature	0°C to 55°C (32°F to 131°F) @60±25% Relative Humidity
Discharge Temperature	-20°C to 60°C (-4°F to 140°F) @60±25% Relative Humidity
Storage Temperature	-20°C to 45°C (-4°F to 113°F) @60±25% Relative Humidity
Case / IP class	Plastic case / IP65
Dimensions	230 mm X 138 mm X 208 mm
Approx Weight	8.2Kg
Terminal	M8
Extended functions (optional)	Power Switch, SOC indicator, USB, Communications (CANBUS, Bluetooth, SMBUS, RS485, RS232, UART, I <sup>2</sup> C)



### FEATURES

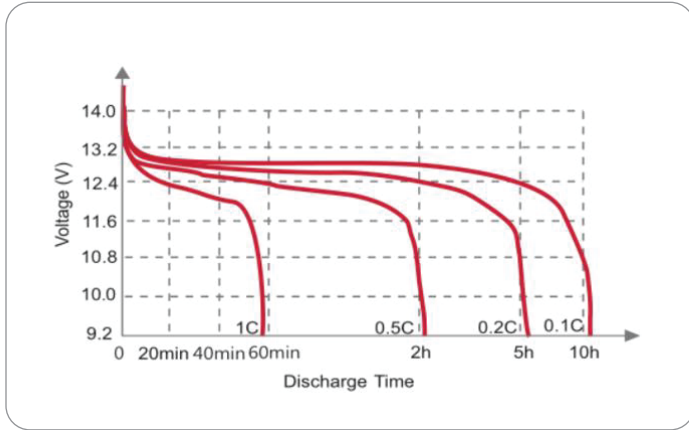
- LONGER CYCLE LIFE:**  
Offers up to 20 times longer cycle life and five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.
- LIGHTER WEIGHT:**  
About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.
- HIGHER POWER:**  
Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.
- WIDER TEMPERATURE RANGE:**  
-20°C~60°C.
- SUPERIOR SAFETY:**  
Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation.
- INCREASED FLEXIBILITY:**  
Modular design enables deployment of up to four batteries in series and up to ten batteries in parallel.

### DIMENSIONS

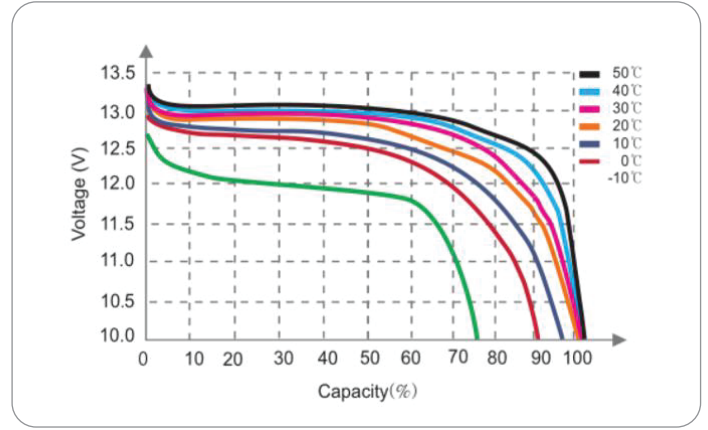


# PERFORMANCE CHARACTERISTICS

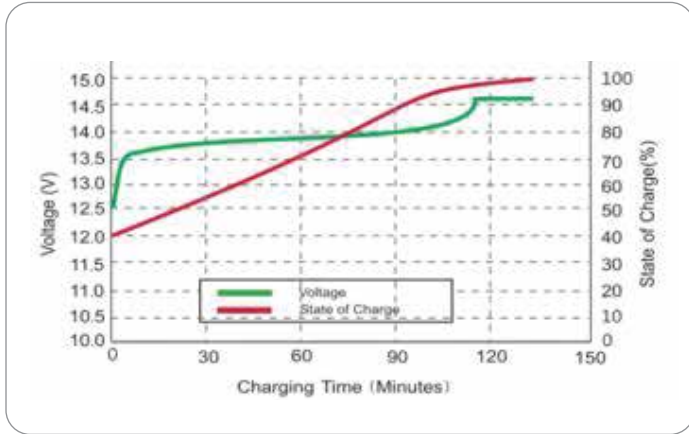
**Different Rate Discharge Curve (25°C)**



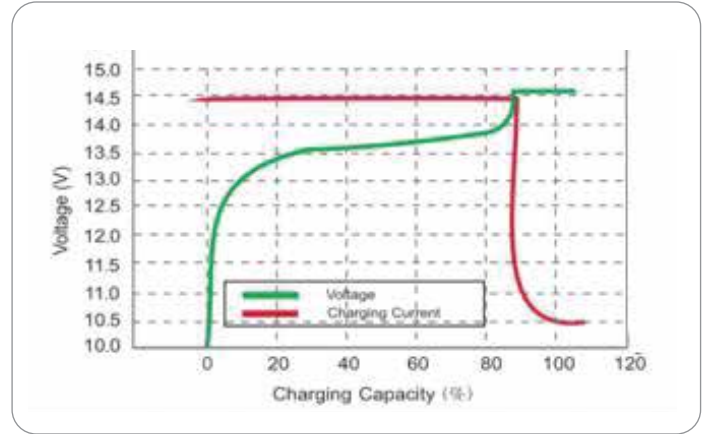
**Different Temperature Discharge Curve (0.5°C)**



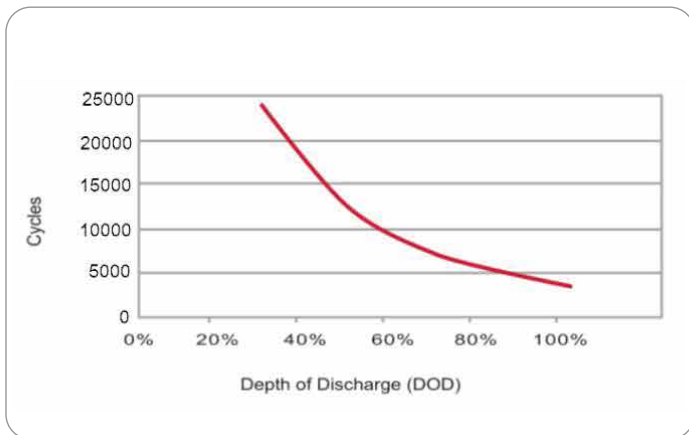
**State of Charge Curve (0.5°C, 25°C)**



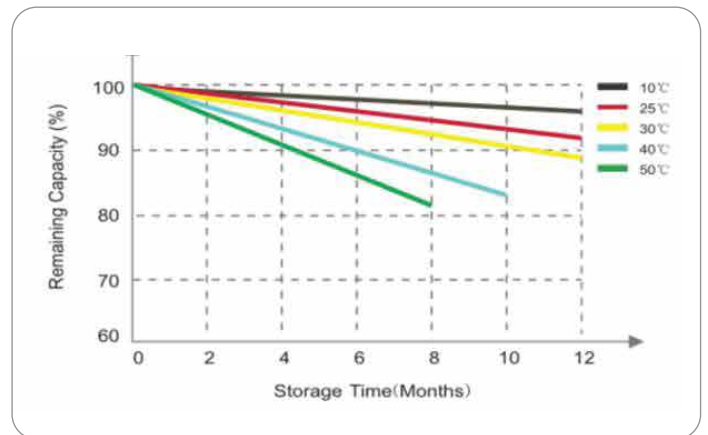
**Charging Characteristics (0.5°C, 25°C)**



**Different DOD Discharge Cycle Life Curve (1°C)**



**Different Temperature Self Discharge Curve**



# NITRO

**LITHIUM IRON PHOSPHATE BATTERY**  
**NLI-1272I**