

EG1206A

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.

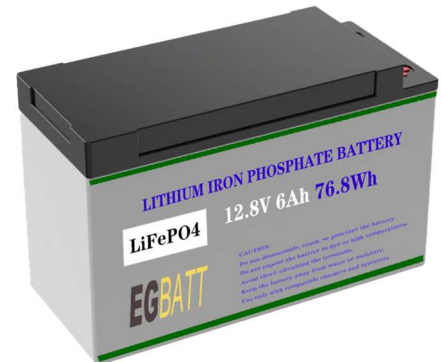
Lighter Weight: About 40% weight of a comparable lead acid battery, save up to 60% in weight.

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.

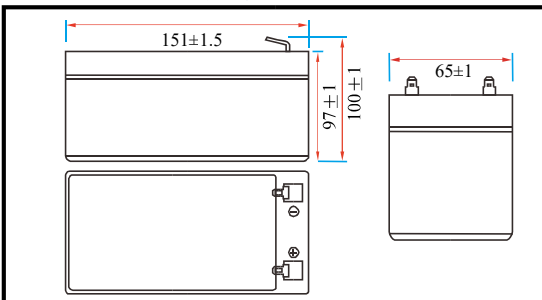
High Efficient: Higher round-trip energy efficiency of the average (92%) than lead acid battery 80% (discharge from 100% to 0% and back to 100% charged).



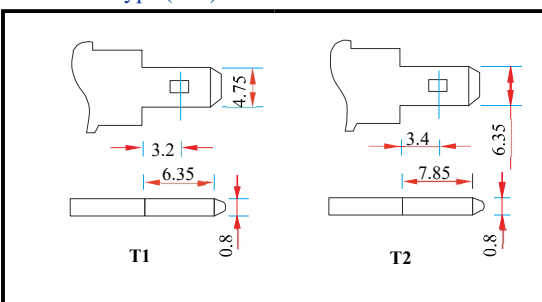
Specifications

Nominal voltage		12V
Nominal capacity		6Ah
Dimensions	Length	150±1.5mm (5.94inch)
	Width	68±1mm (2.56inch)
	Height	94±1mm (3.82inch)
	Total height	98±1mm (3.94inch)
Approx. weight		0.90kg (1.76lbs)±4%

Outer dimensions (mm)



Terminal type (mm)



Characteristics

Electrical Parameters (25°C)	Rated Voltage	12.8V
	Rated Capacity (C ₅)	6Ah@25°C
	Energy	76.8Wh
	Months Self Discharge	<1%
	Charge Efficiency	99.5%@ 1C
Discharge Efficiency		96-99%@ 7.5C
Terminal type		MR30PW-M
Internal resistance (Fully charged, 25°C)		30mΩ
Cycle life		>3000 cycles @ 1C 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		14.4V
Equalization Turn-on Voltage		14V
Charge Current		6A
Backup time		8-15 min
Charge Cut off Voltage		14.6V
Max Continuous Discharge Current		45A
BMS Over Temperature Protection		65±5°C
Overdischarge Protection Voltage		9.2V
Overdischarge Recovery Voltage		10.8V
Short Circuit Protection		YES
Matched UPS		≤0.5KVA
Cell in Series and Parallel		4S2P
Mechanical	Cells	IFR26650-3000mAh
	Container	ABS+PC

Plot of multiplier temperature rise

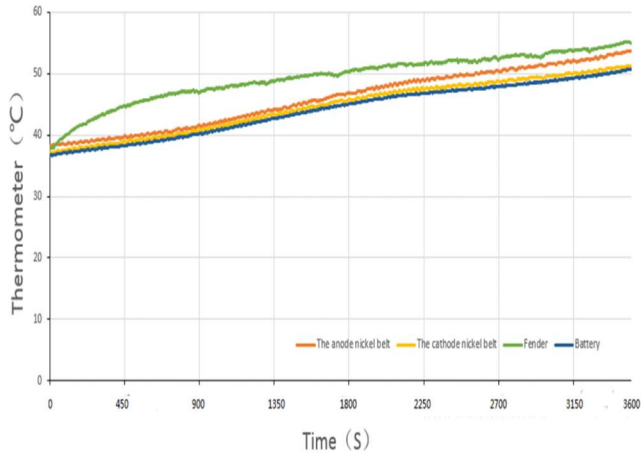
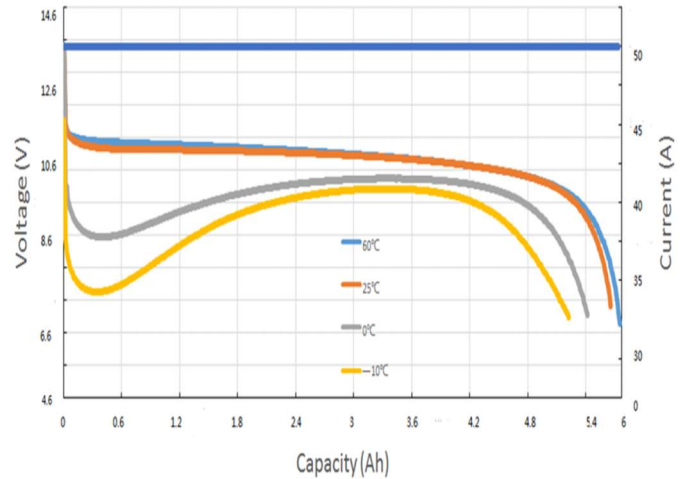
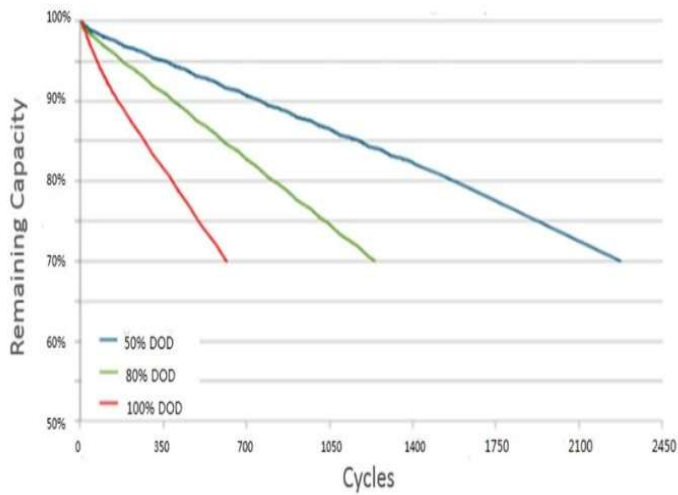


Diagram of maximum current discharge at different temperatures



Cycle graphs of different DOD lifetime



Different constant power discharge curve

