

## EG2409A

### 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.

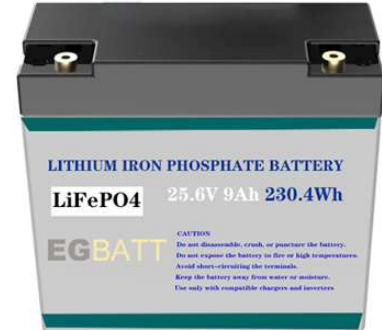
**Lighter Weight:** About 40% weight of a comparable lead acid battery, save up to 60% in weight.

**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.

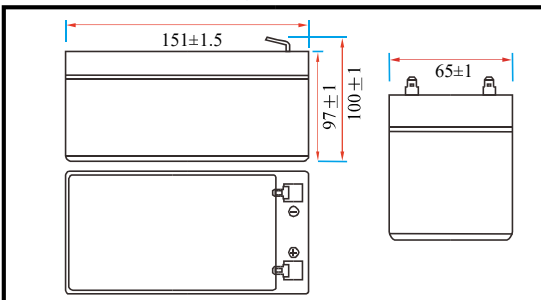
**High Efficient:** Higher round-trip energy efficiency of the average (92%) than lead acid battery 80% (discharge from 100% to 0% and back to 100% charged).



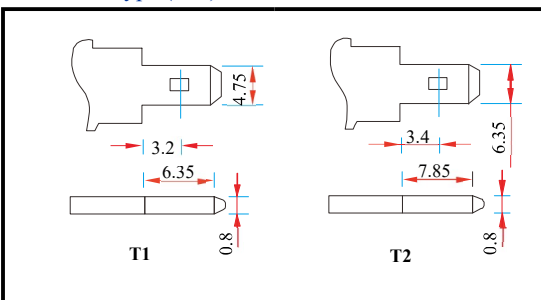
#### ● Specifications

Nominal voltage		24V
Nominal capacity		9Ah
Dimensions	Length	181±1.5mm
	Width	77±1mm
	Height	167±1mm
	Total height	98±1mm
Approx. weight		2.90kg (1.76lbs)±4%

#### ● Outer dimensions (mm)



#### ● Terminal type (mm)



#### ● Characteristics

Electrical Parameters (25°C)	Rated Voltage	25.6V
	Rated Capacity (C <sub>5</sub> )	9Ah@25°C
	Energy	230.4Wh
	Months Self Discharge	<1%
	Charge Efficiency	99.5%@ 1C
	Discharge Efficiency	96-99%@ 7C
Terminal type		M5 nut
Internal resistance (Fully charged, 25°C)		35mΩ
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		28V
Equalization Turn-on Voltage		29.2V
Charge Current		9A
Backup time		8-15 min
Charge Cut off Voltage		28.4V
Max Continuous Discharge Current		63A
BMS Over Temperature Protection		65±5°C
Over discharge Protection Voltage		17.6V
Over discharge Recovery Voltage		21.6V
Short Circuit Protection		YES
Matched UPS		≤1.5KVA
Cell in Series and Parallel		8S3P
Mechanical	Cells	IFR26650-3000mAh
	Container	ABS+PC

Plot of multiplier temperature rise

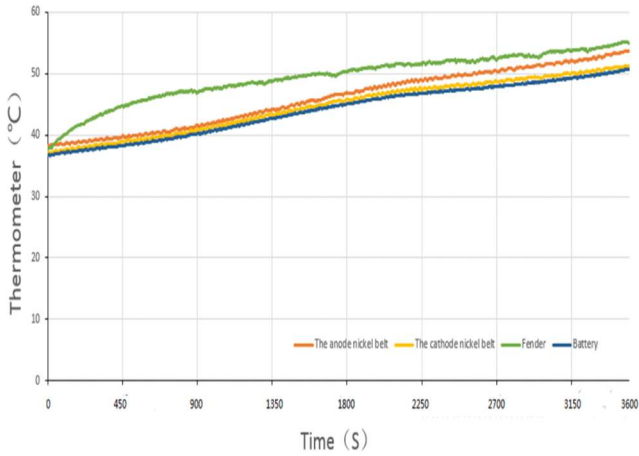
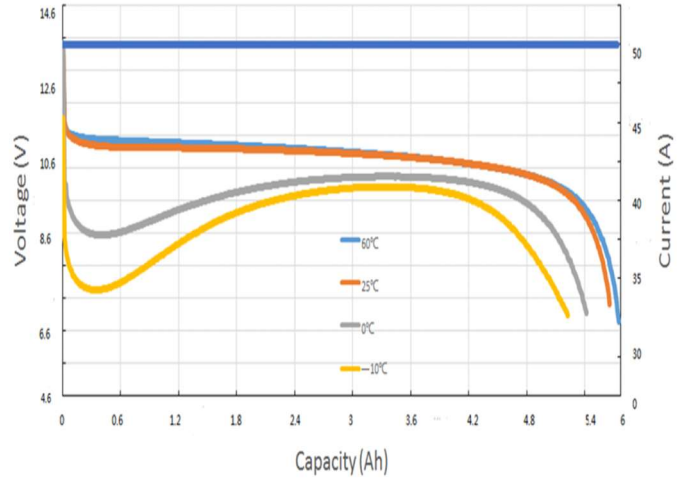
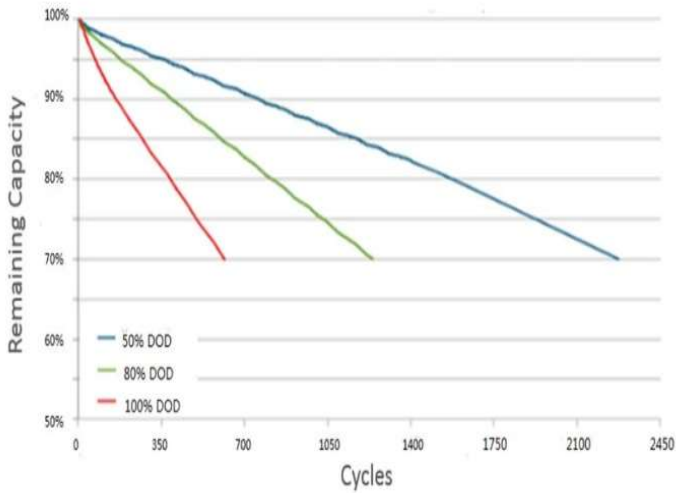


Diagram of maximum current discharge at different temperatures



Cycle graphs of different DOD lifetime



Different constant power discharge curve

