EGBATT Energy Co., Ltd

EG3605A

$LiFePO_4$ Lithium Battery

Longer Cycle Life: Offers up to 15 times longer cycle life and 5 times longer float/calendar life than lead acid battery.

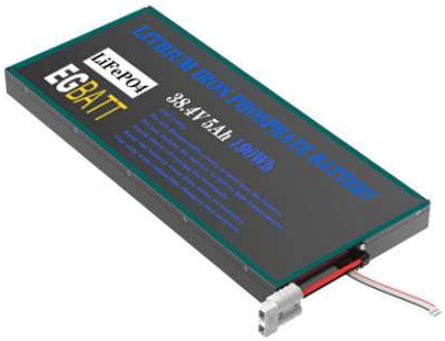
Lighter Weight: About 40% weight of a comparable lead acid battery, save up to 60% in weight.

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.

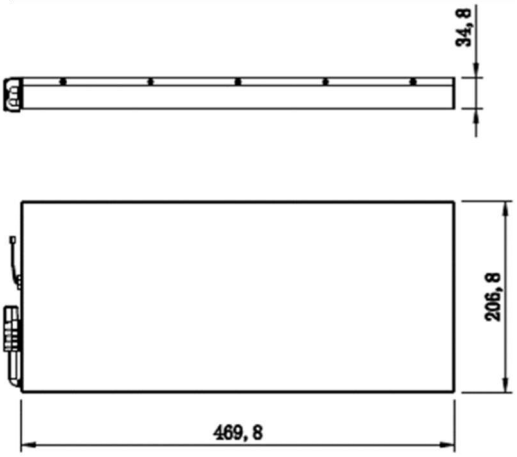
Superior Safety: Multi-protection methods built inside to protect the battery from overcharge, over discharge and short circuit situation.

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		36V
Nominal capacity		5Ah
Dimensions	Length	470±1.5mm
	Width	207±1mm
	Height	35±1mm
	Total height	37±1mm
Approx. weight		5.1kg



Characteristics

Electrical Parameters (25°C)	Rated Voltage	38.4V
	Rated Capacity (C_5)	5Ah
	Energy	192Wh
	Months Self Discharge	<1%
	Charge Efficiency	99.5%@ 1C
	Discharge Efficiency	96-99%@ 12C
Terminal type		Anderson SB50
Internal resistance (Fully charged, 25°C)		45mΩ
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		IP21
Charge Voltage		43.2V
Equalization Turn-on Voltage		40.8V
Charge Current		5A
Backup time		5-15 min
Charge Cut off Voltage		43.2V
Max Continuous Discharge Current		60A
BMS Over Temperature Protection		65±5℃
Over discharge Protection Voltage		30V
Over discharge Recovery Voltage		32V
Short Circuit Protection		YES
Matched UPS		≤2KVA
Cell in Series and Parallel		12S2P
Mechanical	Cells	IFR26650-2500mAh
	Container	SPCC

Note 1: Please always refer to the latest edition of our technical manual that published on our website to ensure safe and efficient operation.

Plot of multiplier temperature rise

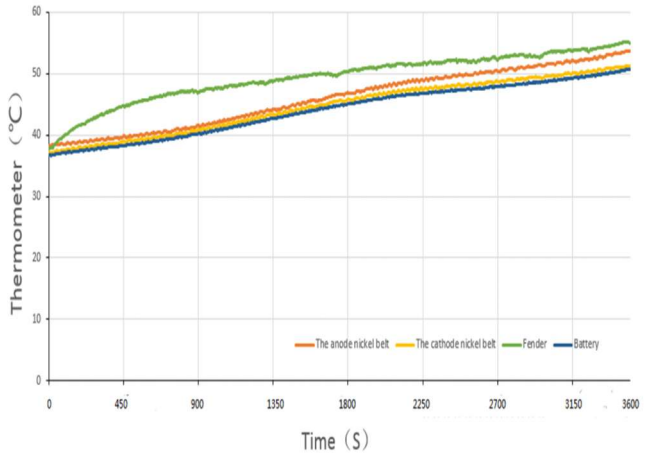
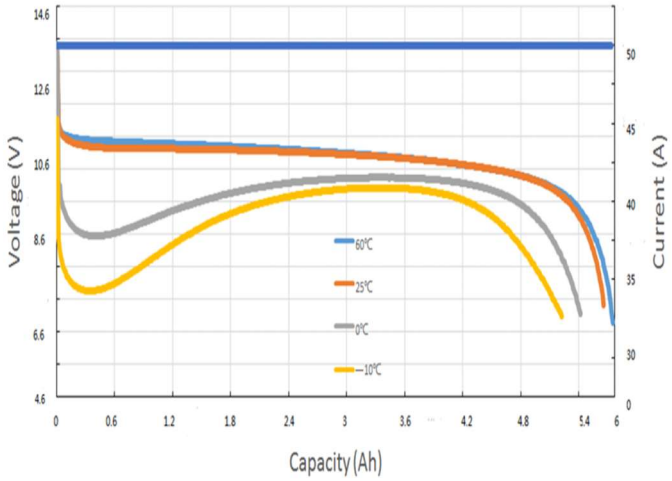
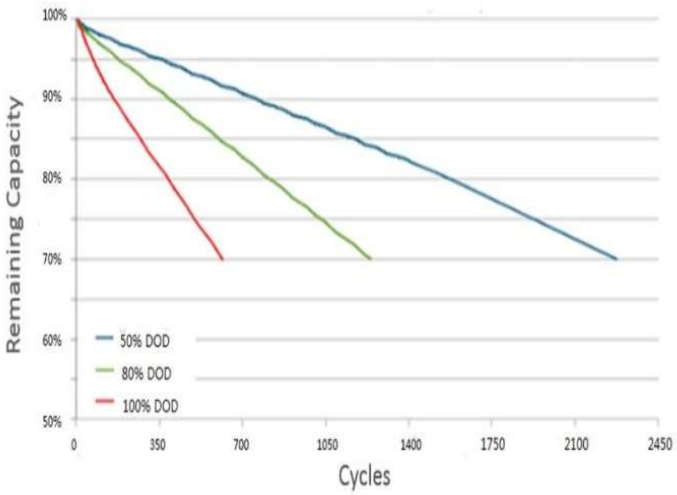


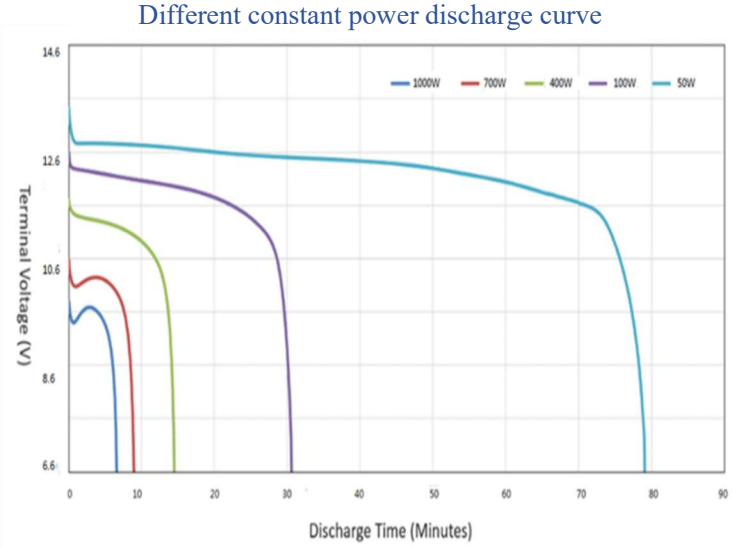
Diagram of maximum current discharge at different temperatures



Cycle graphs of different DOD lifetime



Different constant power discharge curve



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