

LITHIUM IRON PHOSPHATE BATTERY

Lifos[®]

Lifos 12 Technical Data Sheet

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8V
Nominal Capacity	12Ah
Energy	153Wh
Resistance	≤80mΩ
Efficiency	≥90%
Self Discharge	≤3% per month
Maximum Batteries in Series	2
Maximum Batteries in Parallel	2

COMPOSITION INFORMATION

Max Continuous Discharge Current	≤6A
Peak Discharge Current	12A (under 10 seconds)
PCM Discharge Current Cut Off	30A±5A
PCM High Temperature Cut Off	75°C
Recommended Low Voltage Disconnect	≥11.6V
Reconnect Voltage	≥12.8V

TEMPERATURE SPECIFICATIONS

Discharge Temperature	-20~60°C
Charge Temperature	0~50°C
Storage Temperature	-20~40°C
PCM High Temperature Cut-Off	75°C±5°C

MECHANICAL SPECIFICATIONS

Dimensions inc terminals (LxWxH)	151 x 98.6 x 95mm
Weight	1.5kg
Terminal Type	F2
Case Material	ABS + PC
Enclosure Protection (IP rating)	IP54
Cell type - chemistry	LiFePO4

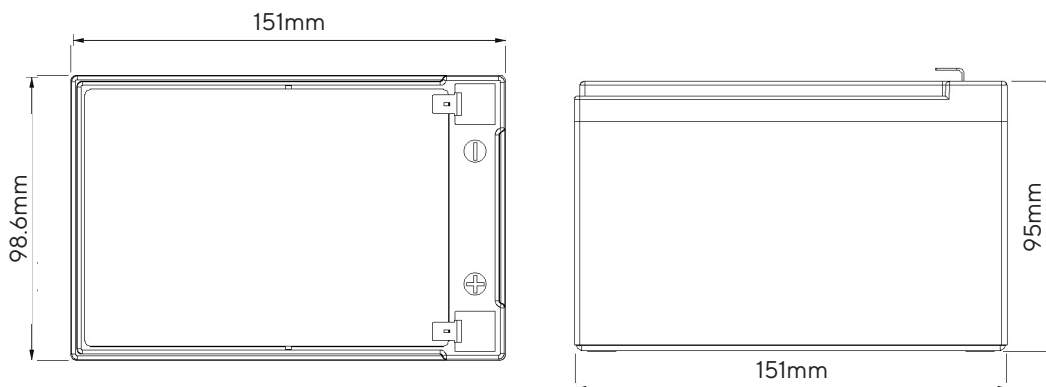
CHARGE SPECIFICATIONS

Recommended Charge Current	3-6A
Maximum Charge Current	<6A
Recommended Charge Voltage	14.4V
PCM Charge Voltage Cut Off	3.9V±0.025V/cell

COMPLIANCE SPECIFICATIONS - CERTIFICATION

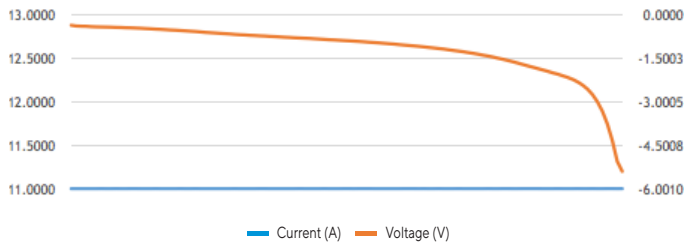
Certifications	CE	TUV
	Rohs	TUV
Shipping Classification	MSDS	UN38.3

DIMENSIONAL SPECIFICATIONS

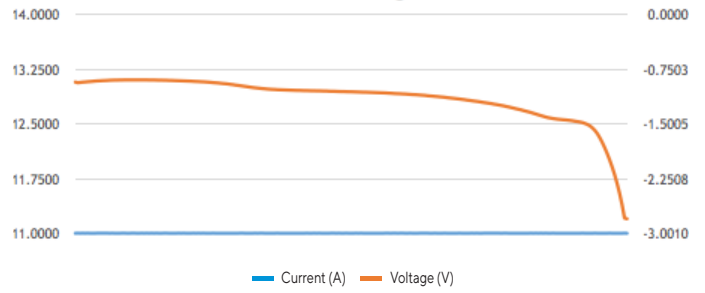


PERFORMANCE CHARACTERISTICS

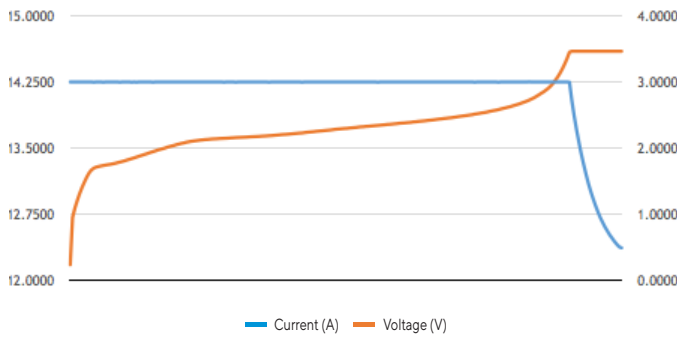
6A @ 25°C Discharging Curve



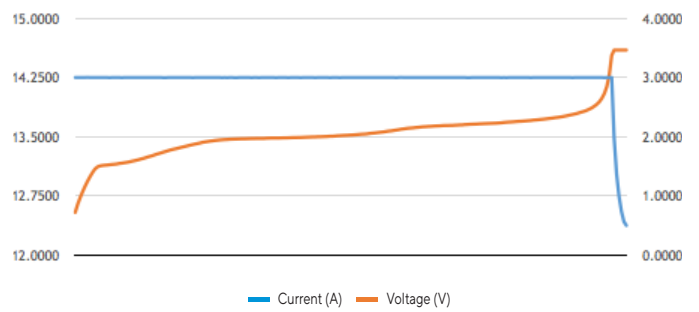
3A @ 35°C Discharging Curve



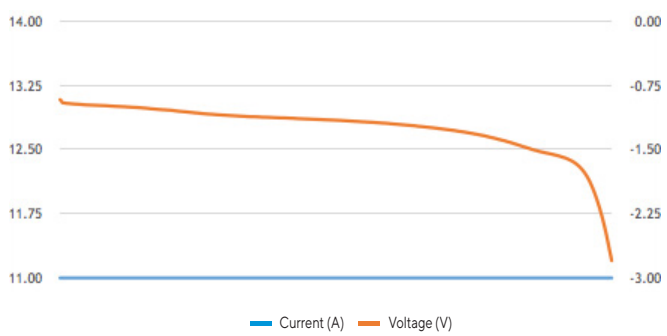
3A @ 10°C Charging Curve



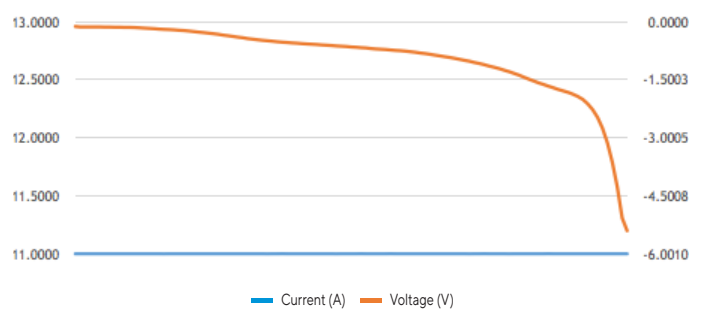
3A @ 25°C Charging Curve



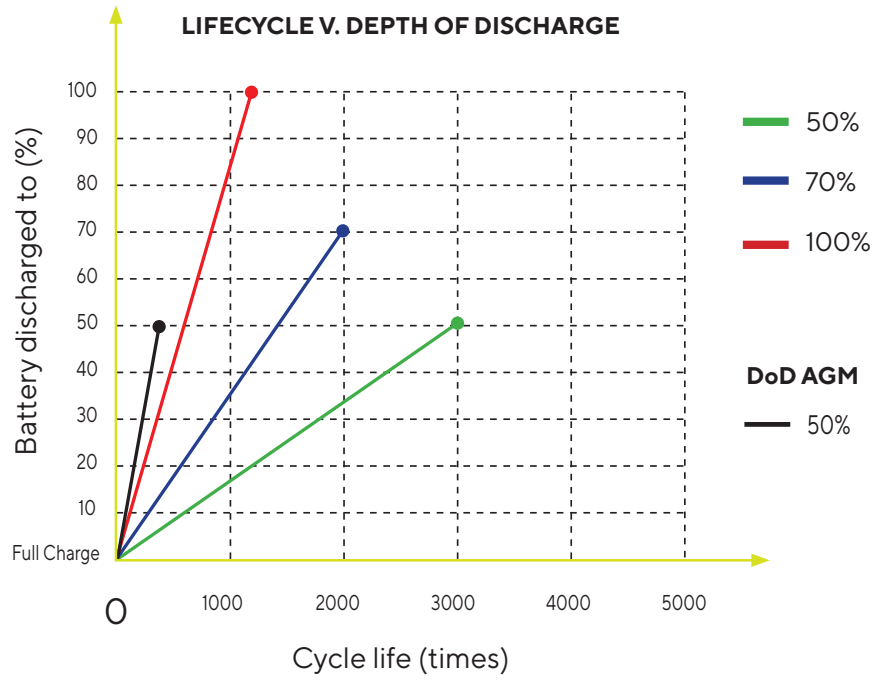
3A @ 25°C Discharging Curve



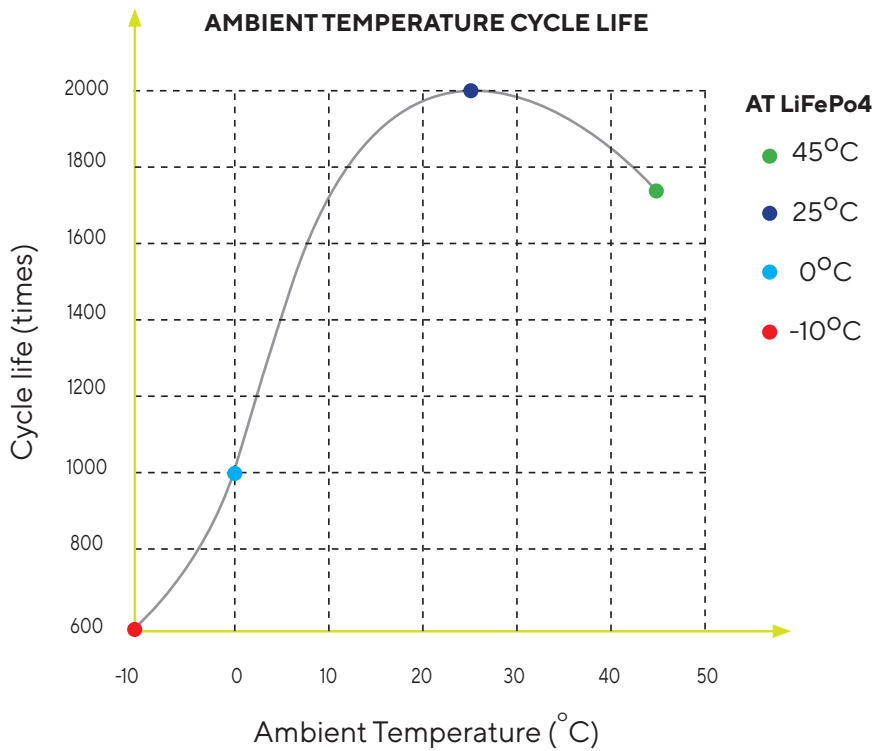
3A @ 35°C Discharging Curve



PERFORMANCE CHARACTERISTICS

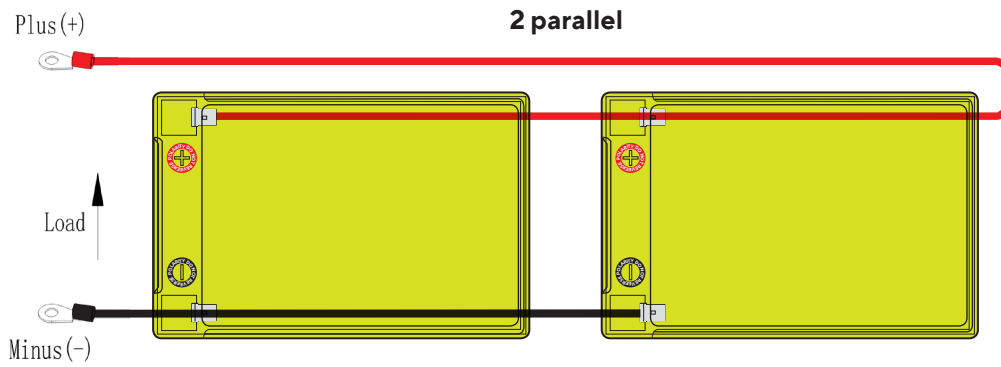


Depth of Discharge	100% DOD	70% DOD	50% DOD
Cycle life (times)	1200	2000	3000



Ambient Temperature	-10°C	0°C	25°C	45°C
Cycle life (times)	600	1000	2000	1750

POWER BANK APPLICATION



We recommend the cable lengths to be equal when connected, not as shown in this drawing.

