

# LITHIUM IRON PHOSPHATE BATTERY



## Technical Data Sheet for Lifos 68

### ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8V
Nominal Capacity	68Ah
Energy	870Wh
Resistance	$\leq 25\text{m}\Omega$
Efficiency	$\geq 90\%$
Self Discharge	$\leq 3\%$ per month
Maximum Batteries in Series	N/A
Maximum Batteries in Parallel	2PCS

### DISCHARGE SPECIFICATIONS

Max Continuous Discharge Current	$\leq 60\text{A}$
Peak Discharge Current	120A (under 10 seconds)
PCM Discharge Current Cut Off	$100\text{A} \pm 5\text{A}$
PCM High Temperature Cut Off	50°C Charge/60°C Discharge
Recommended Low Voltage Disconnect	$\geq 11.6\text{V}$
Reconnect Voltage	$\geq 12.8\text{V}$
Short Circuit Protection	$\geq 800\text{A}$

### TEMPERATURE SPECIFICATIONS

Discharge Temperature	-20~60°C
Charge Temperature	0~60°C
Storage Temperature	-20~40°C
PCM High Temperature Cut-Off	85°C $\pm$ 5°C

### MECHANICAL SPECIFICATIONS

Dimensions inc terminals (LxWxH)	257.5 x 175 x 200mm
Dimensions without terminals (LxWxH)	257.5 x 175 x 190mm
Weight	7.8kg
Terminal Type	Copper pole, M8
Terminal Torque	22~30 N.m
Case Material	ABS + PC
Enclosure Protection (IP rating)	IP54
Cell type - chemistry	LiFePO4

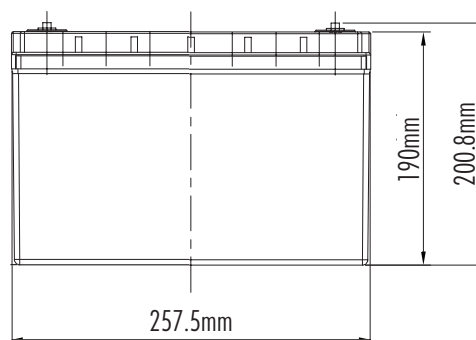
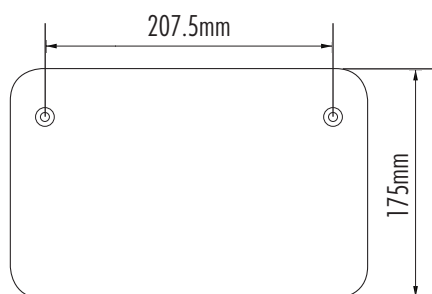
### CHARGE SPECIFICATIONS

Recommended Charge Current	10-30A
Maximum Charge Current	40A
PCM Charge Current Cut Off	40A
Recommended Charge Voltage	14.4v
PCM Charge Voltage Cut Off	$3.65\text{V} \pm 0.025\text{V/cell}$
Reconnect Voltage	$3.0\text{V} \pm 0.1\text{V/cell}$
Balancing Voltage	3.4V/cell

### COMPLIANCE SPECIFICATIONS - CERTIFICATION

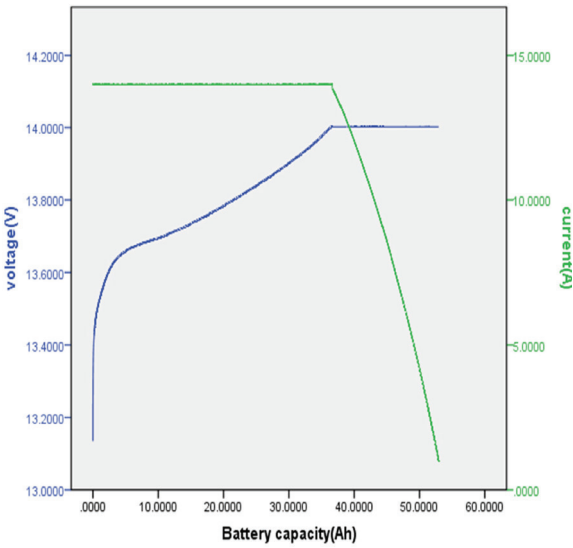
Certifications	CE	TUV
	Rohs	TUV
Shipping Classification	MSDS	

### DIMENSIONAL SPECIFICATIONS

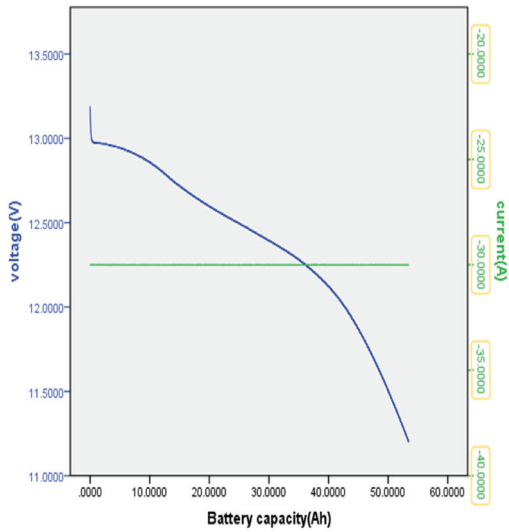


PERFORMANCE CHARACTERISTICS

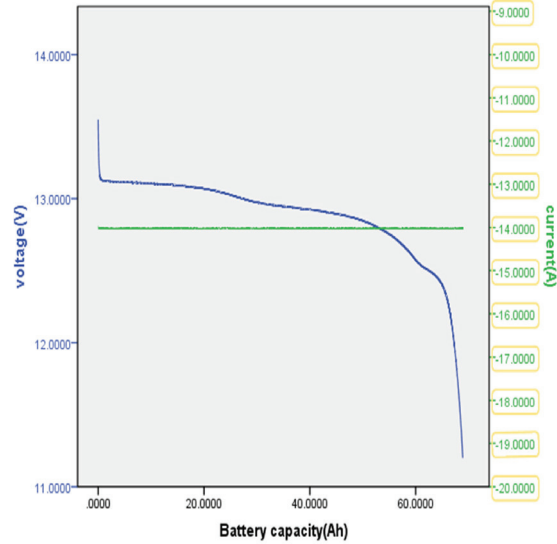
5°C 14A Charging Curve



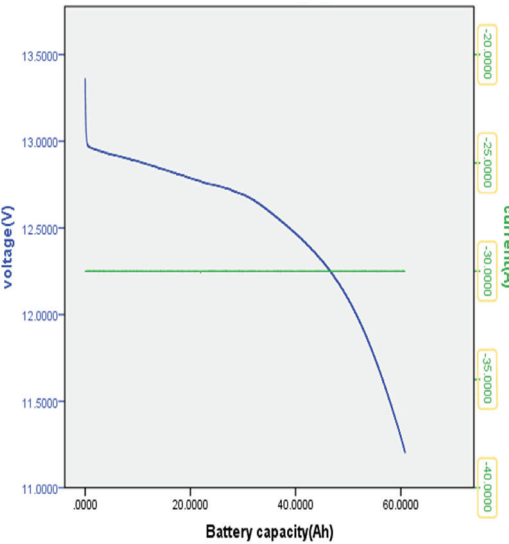
5°C 30A Discharging Curve



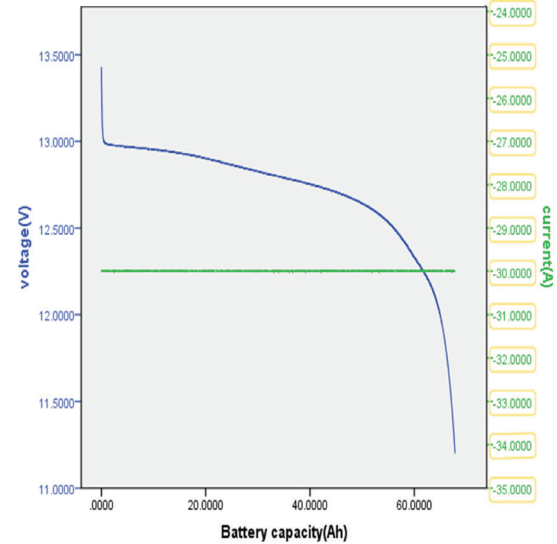
25°C 14A Discharging Curve



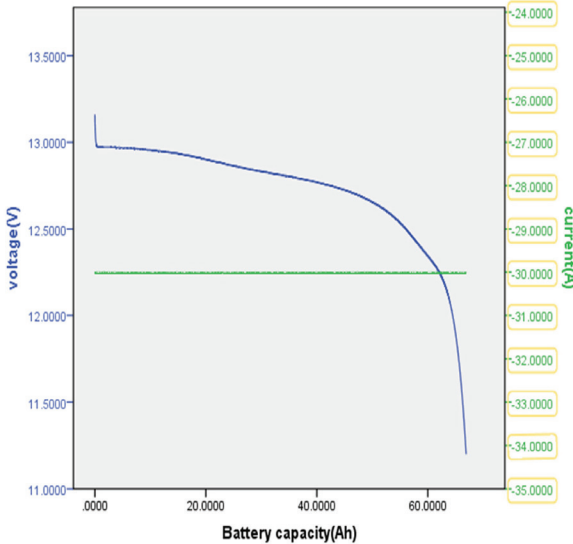
15°C 30A Discharging Curve

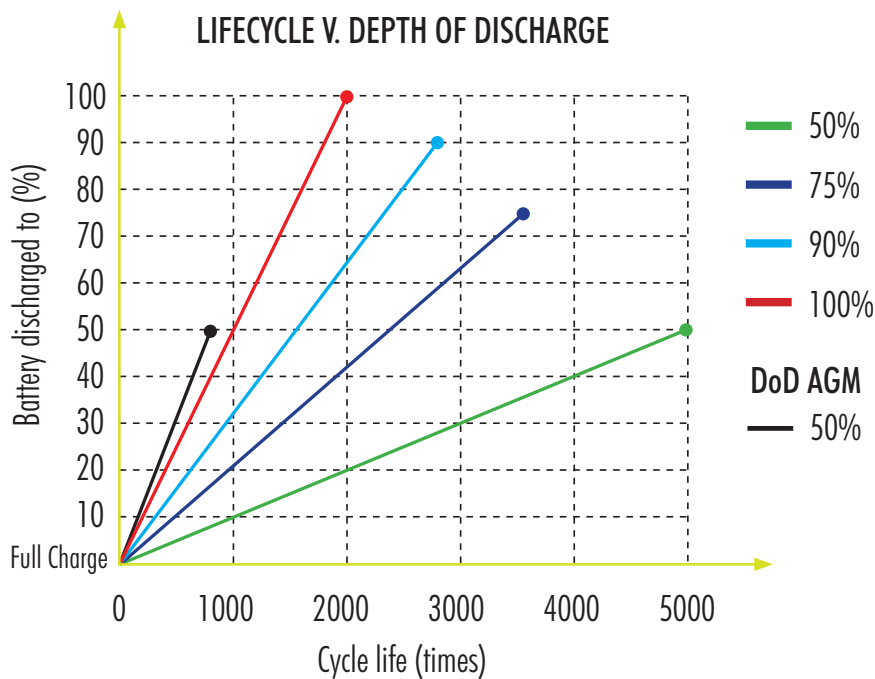


25°C 30A Discharging Curve

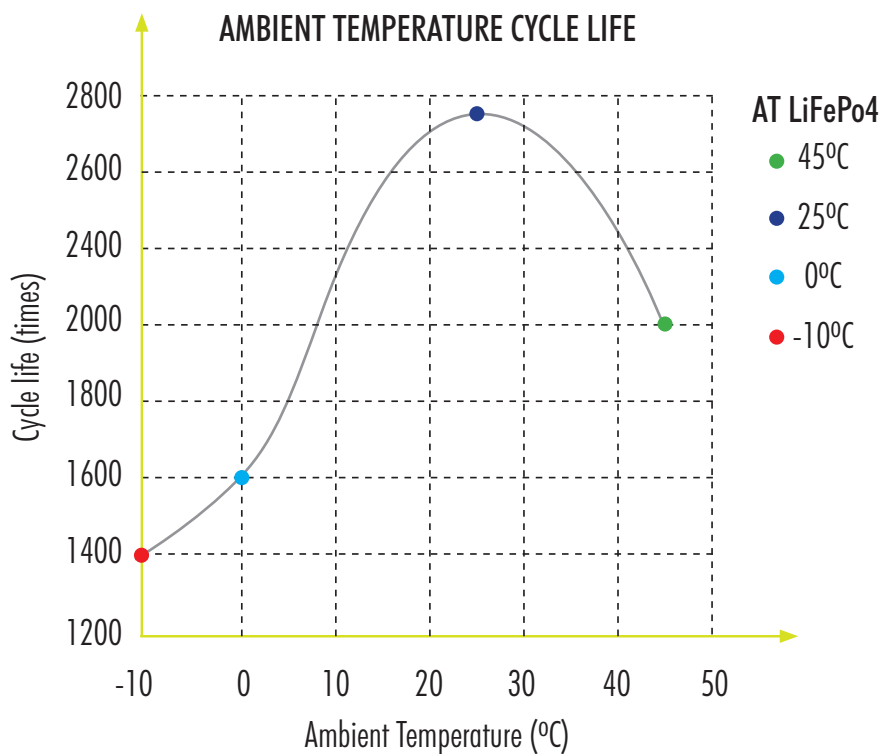


35°C 30A Discharging Curve





Depth of Discharge	100% DOD	90% DOD	75% DOD	50% DOD
Cycle life (times)	2000	2750	3500	5000



Ambient Temperature	-10°C	0°C	25°C	45°C
Cycle life (times)	1400	1600	2750	2000