

LiFePO4 12.8V - 50AH Battery

ELECTRICAL PERFORMANCE

Nominal Voltage	12.8 V
Nominal Capacity	50 Ah
Capacity @ 20A	300 min
Energy	640 Wh
Resistance	≤20 mΩ @ 50% SOC
Self Discharge	<3% / Month
Cells	LFP Cell 3.2V

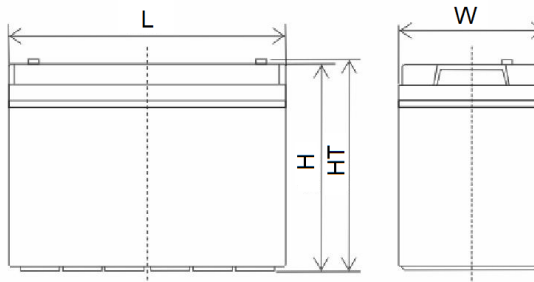
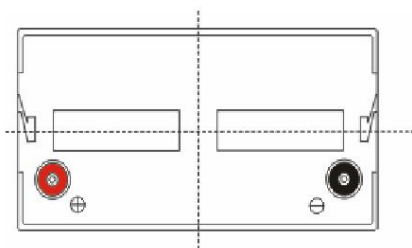
CHARGE PERFORMANCE

Recommended Charge Current	10A
Max Charge Current	25 A
Charge Cut-Off Voltage	<14.6 V
Reconnect Voltage	>14 V
Balancing Voltage	<13.6 V
Maximum Batteries in Series	4(Optional)
Bluetooth Test Window	(Optional)
LED display	(Optional)

DISCHARGE PERFORMANCE

Continuous Discharge Current	25A
Maximum continuous Discharge Current	50 A
Peak Discharge Cut-Off Current	150 A (5 ~15 ms)
Discharge Cut-Off Voltage	>10 V
Reconnect Voltage	>11.2 V
Short Circuit Protection	200 ~ 600 μs

DIMENSIONS



L mm	W mm	H mm	HT mm
260	168	209	214



MECHANICAL PERFORMANCE

Dimension (L x W x H)	260 x 168 x209 mm
Approx. Weight	6.5 kg
Terminal Type	M6
Terminal Torque	9 ~ 11 N-m
Case Material	ABS
Enclosure Protection	IP65

TEMPERATURE PERFORMANCE

Discharge Temperature	-20 ~ 60 °C
Charge Temperature	0 ~ 45 °C
Storage Temperature	-5 ~ 35 °C
High Temperature Cut-Off	65 °C
Reconnect Temperature	48 °C

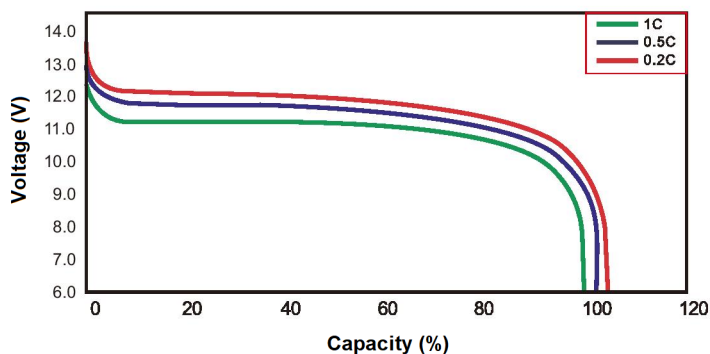
COMPLIANCE

Certifications	CE, UN38.3, UL1973 & IEC62619
Shipping Classification	UN 3480, CLASS 9

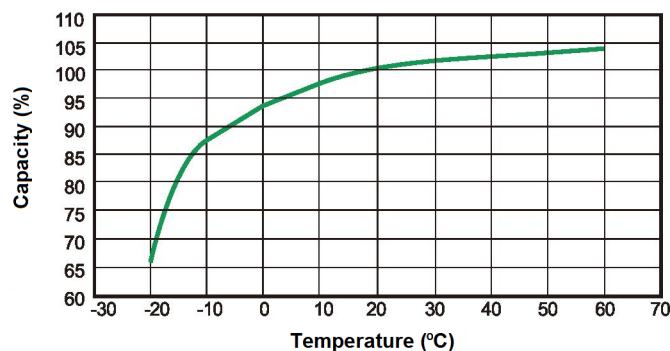
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PERFORMANCE CHARACTERISTICS

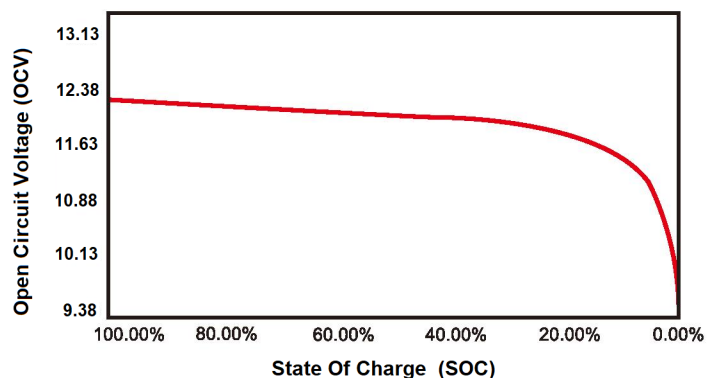
Discharge Performance at 25 °C



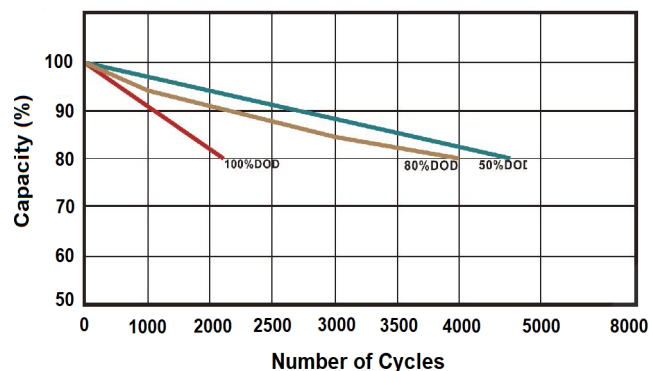
Temperature vs Capacity at 0.2C



State Of Charge vs Open Circuit Voltage



Cycle Life vs D.o.D. at 25 °C, 0.2C



FEATURES & BENEFITS



High cycle life

>4600 cycles @ 50% DoD for effectively lower total cost of ownership.



Longer service life

Low maintenance batteries with stable chemistry. Easily monitor state of charge (SoC) of smart models.



Built in circuit protection

Battery Management Systems (BMS) are incorporated against abuse.



Better storage

Up to 6 months thanks to its extremely low self discharge (LSD) rate and no risk of sulphation.



Quickly recharge

Save time and increase productivity with less down time thanks to superior charge/discharge efficiency.



Extreme heat tolerance

Suitable for use in a wider range of applications where ambient temperature is unusually high: up to +60°C.



Lightweight

Lithium batteries provide more Wh/Kg while also being up to 1/3 the weight of its SLA equivalent.

APPLICATIONS

Lithium Iron Phosphate can be used in most applications that use Lead Acid, GEL or AGM type batteries. Suitable applications include:

- Caravan
- Marine
- Golf Car
- Buggies
- Solar Storage
- Remote Monitoring
- Switching applications and more

CAUTIONS

- Do NOT short circuit, crush or disassemble.
- Do NOT heat or incinerate.
- Do NOT immerse in any liquid.
- Store at 50% capacity. Recharge every 3 months. The storage area should be clean, cool, dry and ventilated.