



100ah 12V Lithium | LFP-Xtreme 100



12V100Ah BATTERY

ELECTRICAL PERFORMANCE	
Nominal Voltage	12.8 V
Nominal Capacity	100Ah
Capacity @ 20A	300 min
Energy	1280Wh
Resistance	$\leq 10\text{m}\Omega$ @ 100% SOC
Self Discharge	<3% / Month
Cells	Prismatic

CHARGE PERFORMANCE	
Recommended Charge Current	20A
Maximum Charge Current	100A
Recommended Charge Voltage	14.4V
BMS Charge Cut-Off Voltage	<14.8V (3.7V/Cell)
Reconnect Voltage	>14.2V(3.55V/Cell)
Balancing Voltage	<14.2V (3.55V/Cell)
Maximum Batteries in Series	4

DISCHARGE PERFORMANCE	
Maximum Continuous Discharge Current	100A
Peak Discharge Current	200A (3s)
BMS Discharge Cut-Off Current	300A $\pm$ 10 A (300 mS)
Recommended Low Voltage Disconnect	10.8V (2.7V/Cell)
BMS Discharge Cut-Off Voltage	>9.2V (1S) (2.3V/Cell)
Reconnect Voltage (by charging)	>11.2V(2.8V/Cell)
Short Circuit Protection	250 ~ 500 μ s



MECHANICAL PERFORMANCE	
Approx. Weight	Approx. 12kg
Terminal Type	M8
Case Material	ABS
Enclosure Protection	IP65

TEMPERATURE PERFORMANCE	
Discharge Temperature	-4 ~ 140 °F (-20 ~ 60 °C)
Charge Temperature	32 ~ 113 °F (0 ~ 45 °C)
Storage Temperature	23 ~ 95 °F (-5 ~ 35 °C)
BMS High Temperature Cut-Off	149 °F (65 °C)
Reconnect Temperature	131 °F (55 °C)

COMPLIANCE	
Certification	CE (battery) UN38.3 (battery) UL1642 & IEC62133 (cells)
Shipping Classification	UN 3480, CLASS 9



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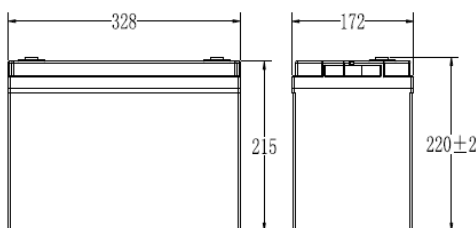
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OUTLINE DIMENSION



- Over current draw protection test - BMS 100%
- Short circuit protection check - BMS 100%
- Over voltage draw protection check - BMS 100%
- Under voltage protection check - BMS 100%
- Temperature protection check - BMS 100%
- NTC (Negative temperature thermistor) - 100%
- PTC (Positive temperature thermistor) - 100%
- Sell balance function check (BMS controlled) - 100%
- Insulation % continuity (solder quality) check - 100%
- Cell & BMS mechanical suspensions / protection test - 100%

L mm	W mm	H mm	HT mm
330	172	215	220

FEATURES & BENEFITS



High cycle life

>6000 cycles - @50% DoD for effectively lower total cost of ownership



Longer service life

Low maintenance batteries with stable chemistry.



Built in circuit protection

Battery Management System (BMS) is 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.



Light weight

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:

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

CAUTIONS

- Do NOT short circuit, reverse polarity, crush or disassemble.
- Do NOT heat or incinerate.
- Do NOT immerse in any liquid.
- Store at 30~50% SOC. Recharging every 3 months is recommended. The storage area should be clean, cool, dry and ventilated



Performance may vary depending on application. All specifications are subject to change without prior notice to the user. This data is for evaluation purposes only. No guarantee is intended or implied by this data.



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