



LFP 20-Xtreme

12.8V - 20Ah Lithium LiFePO4 Battery

XTREME Series Lithium Iron Phosphate batteries are powerful LiFePO4 products that have the highest capacity in standard casings available on the market. The highly sophisticated and integrated BMS with very low self-consumption brings safety,

The highly sophisticated and integrated BMS with very low self-consumption brings safety, functionality and ease of use together in a lightweight and robust casing. The batteries have been specifically designed to provide energy for RV (Recreational Vehicles), marine, solar and backup power systems.

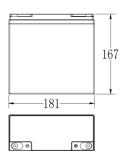
Bluetooth and LED indicators, LCD screen, self-heated functions could be optional.

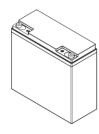
LFP 20 XTREME

Benefits of Lithium

- · High capacity, low weight, Increased energy in given space
- · Fast charging
- High operational reliability
- · Safest lithium technology
- Excellent life cycles
- Built-in intelligent BMS to protect the battery pack and prolong its service life
- Maintenance free







Certifications and standards

a.Products

- UL1642(cells)
- FCC
- UN38.3
- IEC62619

b.MS certifications

- ISO9001
- ISO14001
- OHSAS 18001

Specifications

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Nominal Characteristics		
Battery model		TP1220LFP
Nominal voltage		12.8V
Typical capacity		20Ah(25℃,0.2C)
Typical energy		256Wh
Cells type/chemistry		Prismatic-LiFePO ₄
Gravimetic Energy density		111Wh/Kg
Dimensions	Length Width Height	181mm 77mm 167mm
Reference Weight		2.3Kg
Case Material		ABS
Cycle life		>2000 cycles(100% DoD)
Electrical Characteristics		
Charge method		CC/CV
Charge voltage Range		14.3~14.6V
Max.continuous Discharge Current		20A
Max.continuous Charge Current		20A
Discharge Pulse Current (10 sec)		50A
End of Discharge Voltage		10V
Operation Environment		
Charge Temperature		0℃~55℃
Discharge Temperature		-20°C~60°C
Storage Temperature		-20°C~60°C
Protection Class		IP56



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BMS Specifications

ITEM	CONTENT	CRITERION
Voltage	Charging voltage Balance voltage	3.65V/cell 3.45V/cell
Current	Max continues charge current Max continues discharge current	20A 20A
Over charge Protection	Over charge detection voltage Over charge detection delay time Over charge release voltage	3.75±0.05V 1~3S 3.6±0.05V
Over discharge Protection	Over discharge detection voltage Over discharge detection delay time Over discharge release voltage	2.5±0.05V 1~3S 2.70±0.10V
Over current protection	Over discharge current protection Detection delay time1 Over charge current detection current Detection delay time	50A 50~150mS 40A 300~800mS
Short Circuit Protection	Short Circuit Protection Current Detection delay time Release condition	130A,External short circuit 400uS Cut load and charging
Battery temperature	Over-temperature protection Release temperature	65±5°C 50±5°C

Performance curve

