

VMAX LFP1230MBH Lithium Battery Datasheet

General

Battery Type	Lithium-Ion NMC (Nickel Manganese Cobalt)
Nominal Voltage	14.4V (3.6V/cell)
Rated Capacity	30Ah (20-hour rate @ 25°C)
Rated Energy	432Wh
Output Voltage Range	10.0V – 16.8V
Cut-Off Voltage	10.0V
Cycle Life	~800 cycles @ 15A, 25°C (77°F)
Design Life	~3 years
Efficiency	>98%

Charging

Charging Voltage	16.8V (CC-CV)
Max Constant Charging Current	30A
Recommended Charging Current	10A–15A (Best at 6A)
Over-Charge Voltage Protection	Module >17V, Cell >4.25V
Over-Charge Current Protection	>50A (2-second delay), >100A (1-second delay)
Cell Balance	Passive, 0.4mA

Discharging

Max Constant Discharge Current	30A
Max 3-Second Discharge Current	80A
Over-Discharge Voltage Protection	Module <10.0V, Cell <2.5V
Over-Discharge Current Protection	>50A (2-second delay), >100A (1-second delay)
Short-Circuit Protection	>360A

Temperatures

Charging Temperatures	0°C to 45°C (32°F to 113°F)
Discharging Temperatures	-20°C to 65°C (-4°F to 150°F)
Storage Temperatures	-20°C to 45°C (-4°F to 113°F)
Heater ON Temp	Activates below 0°C (32°F)
Over-Temp Protection (Charging)	<0°C (32°F) or >65°C (150°F)
Over-Temp Protection (Discharging)	<-20°C (-4°F) or >65°C (150°F)

Physical

Case Material	ABS
Dimensions (L x W x H)	150 x 99 x 131 mm
Terminals	F2 Tab
Weight	4.8 lbs

Features

Built-in BMS	Over-voltage, under-voltage, over-current, short-circuit, temperature protection
Bluetooth Monitoring	Yes
Built-In Heater	Yes, for cold-weather charging

Certifications

IP Rating	IP67 Waterproof
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Warranty

Warranty	7-Year Pro-Rated
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Information sourced from vmaxtanks.com September 2025 and is subject to change.

