



12.8V 52Ah

Open Source - LFP Battery Technology

52Ah Prismatic Cells . 50A Rated BMS . 665Wh Capacity . Bluetooth Monitoring with 'Lynac Intel Plus' App . IP65 Waterproof



BT App - Lynac Intel Plus

Electrical Properties

12.8V 52Ah 665Wh

Cycle Life

6000 Cycles at 0.2C to 80% DoD

Dimensions

Group Fit #U1

229*138*208mm

9.0" x 5.4" x 8.2"

12.1lbs (5.5kg)

Discharge

Optimal Current 10A (0.2C) Max

Cont. Current 50A (1C) ≤5min

Max Inst. Current 200A (4C)

≤5s

Charge

Optimal Current 10A (0.2C) Max

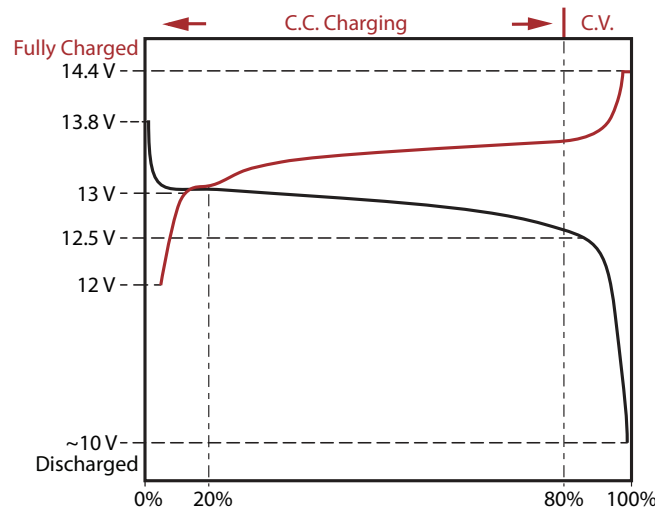
Cont. Current 50A (1C) ≤5min

Ingress Protection

IP65

Certifications

UN 38.3, UL1642, IEC62133



BMS Properties

Charge Balancing, Current, Voltage, Short Circuit, Temperature, Low Temp Charge Protect Bluetooth, Software Adjustable Set Points, 'Lynac Intel Plus' App

Terminal Connections

M6 (5/16") Lug - Brass Bolt

Warranty

3 Year Manufacturer with 7 Year Prorated



What is State Series?

State of the Art - Open Source Battery Technology - Simple Cell Configurations and Rugged Busbar Design - Enhanced Performance - Reduced Risk of Failure or Maintenance - Removable Top Open Battery Case - Easily Update or Replace BMS Modules - Stay Ahead of the Curve with the Latest Programmable Battery Features and Software Updates - Seamless System Integration and Communication Options



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Battery Storage

70% State of Charge @13.2V - in a cool dry location.
Disconnect all loads and sources - Verify charge level after one month.
Can store in sub-zero temperatures if battery charge level is properly maintained.

Charge Settings

Absorb Voltage: 14.0Vdc - 14.4Vdc

Max Charge Voltage: 14.6Vdc

Ideal Bulk Current: 0.2C - 0.5C (20A dc - 50A dc for a 100Ah Battery)

Float Voltage: 13.2Vdc - 13.6Vdc (not required)

Tail Current: 0.02C - 0.05C (2A - 5A for a 100Ah battery)

Equalization: Off (or set to Absorb Voltage)

Temperature Compensation: Off

Peukert Exponent: 1.0

Charge Efficiency Factor: 99%

Basic Profile: Constant Current - Constant Voltage (CC-CV)

Voltage vs State of Charge

Voltage	13.9V	13.6V	13.4V	13.3V	13.2V	13.2V	13.0V	12.9V	12.8V	12.5V	12.1V	10.0V
Capacity	100%	99%	98%	90%	70%	40%	30%	20%	17%	14%	10%	0%

IMPORTANT: BATTERY INFORMATION

- LFP batteries can be operated in sub zero Temperatures but LFP cells should not be charged below freezing-low temperature charge protection and/ or battery heating can be used to prevent damage.
- LFP batteries should not be charged directly from an Alternator without proper regulation. Batteries should always be isolated from other battery chemistries in the system.
- Parallel connected batteries can be charged using a single bank charger without added battery balancing. Battery balancers are needed when charging series connected batteries using a single bank charger. A multi bank charger can act as a balancer but only while charging to full capacity.
- Maintenance and trickle charging is not necessary for LFP batteries and can be damaging. When batteries are not in use, leave resting in a partial state of charge (approx. 60% - 80%) - charge before using.