State SERIES

12.8V 150Ah

Open Source - LFP Battery Technology

150Ah Prismatic Cells . 150A Rated BMS . 1920 Wh Capacity . Bluetooth Monitoring with 'Lynac Intel Plus' App . IP 65 Waterproof

BT App - Lynac Intel Plus

Electrical Properties
12.8V 150Ah 1920Wh

Cycle Life
6000 Cycles at 0.2C to 80% DoD

Dimensions
Group Fit #27

295×203×225mm

11.6" x 8.0" x 8.9"

32lbs (14.5kg)

Discharge
Optimal Current 30A (0.2C) Max

Cont. Current 150A (1C) ≤5min

Max Inst. Current 400A (2.7C)

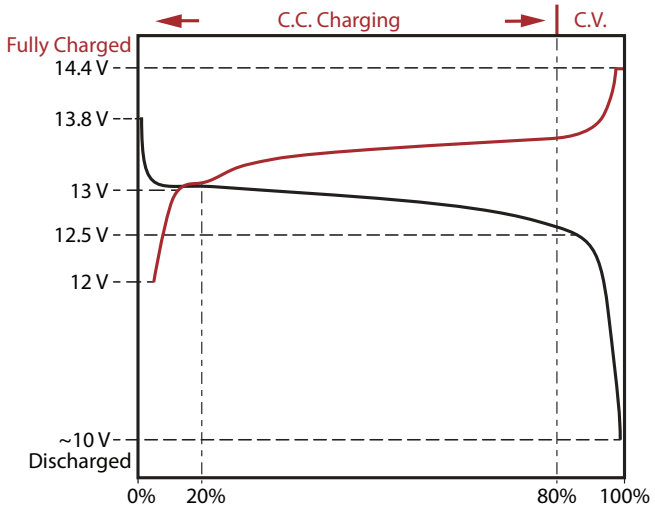
≤5s

Charge
Optimal Current 30A (0.2C) Max

Cont. Current 150A (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
M8 (5/16") Lug - Brass Bolt

Warranty
3 Year Manufacturer with 7 Year Prorated

IEC GRADE A CELLS

UN 38.3

ECO Friendly

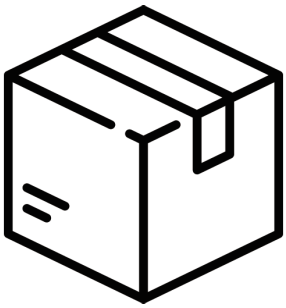
Bluetooth

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

www.Lynac.com

Phone: 1 (877) 330-4519 Email: Sales@lynac.com



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 (20Adc - 50Adc 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 (appox. 60% - 80%) - charge before using.