



# 12.8V 300Ah

## Open Source - LFP Battery Technology

304Ah Prismatic Cells . 300A Rated BMS . 3840 Wh Capacity . Bluetooth Monitoring with 'Lynac Intel Plus' App . IP 65 Waterproof

BT App - Lynac Intel Plus

### Electrical Properties

12.8V 300Ah 3840Wh

### Cycle Life

6000 Cycles at 0.2C to 80% DoD

### Dimensions

Group Fit #4D

523x269x218mm

20.6" x 10.6" x 8.6"

58.4lbs (26.5kg)

### Discharge

Optimal Current 60A (0.2C) Max

Cont. Current 300A (1C) ≤5min

Max Inst. Current 900A (3C)

≤5s

### Charge

Optimal Current 60A (0.2C) Max

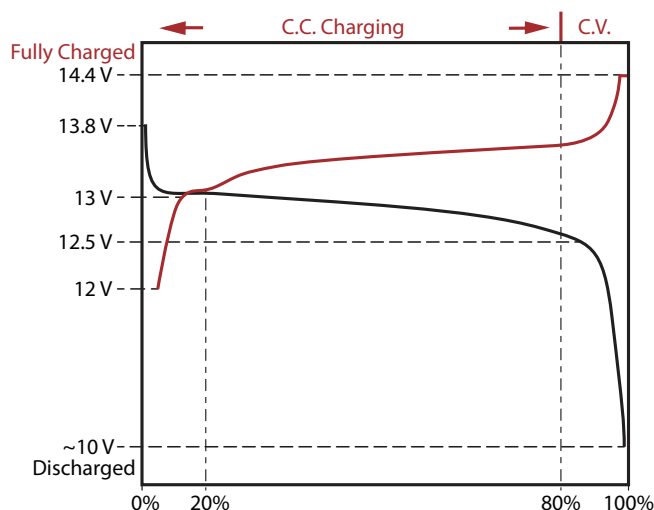
Cont. Current 300A (1C) ≤5min

### 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, Canbus

### Terminal Connections

M8 (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

<b>Voltage</b>	13.9V	13.6V	13.4V	13.3V	13.2V	13.2V	13.0V	12.9V	12.8V	12.5V	12.1V	10.0V
<b>Capacity</b>	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.