

12.8V 7Ah X20HL – Powersport Series



High Output BMS - 420A CCA Cranking Equivalent - Sealed IP 65 Case - Direct Alternator Charging - Grade A+ 26650 Cylindrical Cell Construction - Charge Indicator - Drop in Ready - ATV - PWC - XTV - Motorcycle

Replaces

GYZ20HL | YTX20HL-BS | YTX20L-BS | YB16CL-B | YB16L-B | YB16HL-A-CX | YB18L-A | Y50-N18L-A

Electrical Properties

12.8V 7Ah 89.6Wh

Cycle Life

6000 Cycles at 0.2C to 80% DoD

Dimensions

6.89" x 3.42" x 5.11"
(175 x 130 x 87mm)
2.71lbs (1.23kg)

Discharge

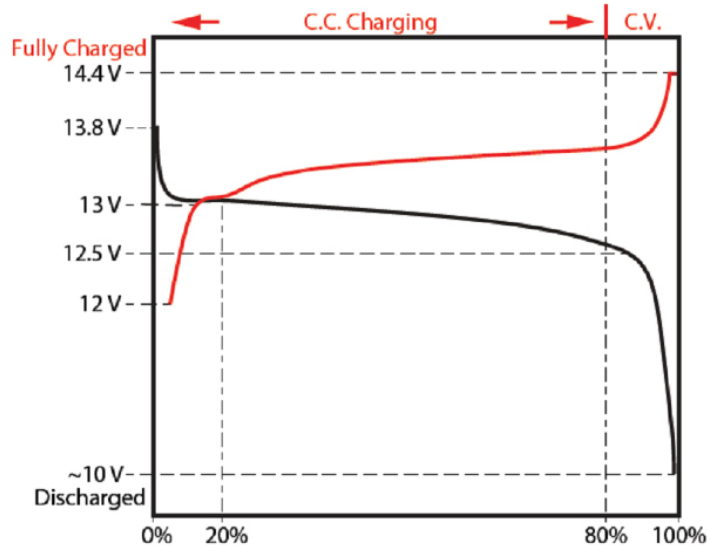
Optimal Current: 0.7A (0.1C)
Max Cont. Current: 7A (1C)
≤5s
Max Inst. Current: 420A (60C)
≤1s

Charge

Optimal Current: 0.7A (0.1C)
Max Cont. Current: 7A (1C)

Ingress Protection

IP65



BMS Properties

Charge Balancing, Current, Voltage, Short Circuit, Direct Alternator Charging, High Output

Terminal Connections

Nut and Bolt (T3) Terminal

Warranty

3 Year Manufacturer



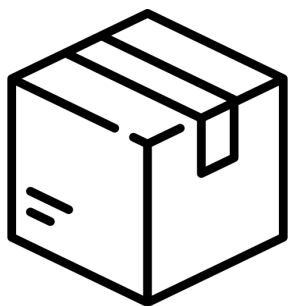
MOTO-SPORT SERIES

What is the Moto-Sport Series?

Starter/cranking lithium batteries deliver exceptional performance and dependable power, ensuring smooth and reliable engine starts. Engineered with advanced high output LFP grade A+ cells, our premium-quality lithium batteries are specifically designed for starter/cranking applications and superior durability and extended battery life.

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

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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 discharged in sub zero Temperatures but should not be charged - 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 but should be charged to FULL, individually, then connected at while at matched Voltages for initial balancing. A multi bank charger can balance series connected batteries during each charge.

• Maintenance and trickle charging is not necessary for LFP batteries and can be damaging over time.
When batteries are not in use for long periods or in storage, leave resting at a partial state of charge (approx. 60% - 80%) - best practice is to charge just before use.