



Tiger
LITHIUM

12V

TLMS12-120

MARINE STARTING

LITHIUM IRON PHOSPHATE BATTERY



PRODUCT OVERVIEW

Engineered for dependable starting power in today's high-output outboards with direct alternator charging, Tiger Rescue Reserve™, Bluetooth® monitoring, and premium marine-grade construction.

5+1 LIMITED WARRANTY

5 years standard
+ 1 with registration.

ALTERNATOR CHARGING

Up to 60A continuous
charge current.

TIGER RESCUE RESERVE™

Emergency reserve
starting power.

TRIPLE TERMINALS

Clean & organized
installs.

800 CCA POWER

Effortless
outboard starting.

READY TO START
READY TO EXPLORE

APPLICATIONS



OUTBOARD STARTING



BASS BOATS



BAY BOATS



OFFSHORE BOATS



MARINE ELECTRONICS



HOUSE LOADS

5+1 YEAR LIMITED WARRANTY

UNMATCHED RELIABILITY. TOTAL PEACE OF MIND.

Built for dependable performance and backed by a 5+1 Year Limited Warranty and dedicated Tiger Lithium support.

TECHNICAL DASHBOARD

Quick answers to the most important questions.



ELECTRICAL

Nominal Voltage	12.8 V
Capacity	120 Ah
Energy	1536 Wh
Operating Voltage	10 V to 14.4 V
Cell Configuration	4S8P



DISCHARGE

Continuous Discharge	120 A
10 Second Discharge	800 A
Cold Cranking Amps	800 A @ 10°C
Discharge Temperature	-4°F to 140°F (-20°C to 60°C)



CHARGING

Recommended Charge Current	15 A
Maximum Charge Current	60 A
AC Charger Voltage	14.4 V ± 0.2 V
Alternator Voltage	14.5 V ± 0.3 V
Charge Cutoff Voltage	15.4 V
Charge Temperature	32°F to 131°F (0°C to 55°C)



PHYSICAL

Weight	37.3 lb (16.9 kg)
Terminal Type	M8 Female
Terminal Sets	Three
Case Material	Polycarbonate & ABS
State of Charge (SOC) Meter	Yes
Dimensions	13.0 × 6.8 × 9.3 in 330 × 173 × 236 mm



BATTERY PROTECTION

Over-Charge	Protected
Over-Discharge	Protected
Over-Current	Protected
Short-Circuit	Protected
High Temperature	Protected
Low Temperature	Protected
Cell Balancing	Automatic



KEY ADVANTAGES

- ✓ Direct alternator charging—no DC-to-DC charger required
- ✓ Tiger Rescue Reserve™ preserves emergency starting power
- ✓ Triple terminal sets simplify accessory wiring
- ✓ Premium marine construction built for harsh environments
- ✓ Automotive-grade LiFePO₄ cells engineered for long service life
- ✓ Hiberstate™ dramatically reduces self-discharge during storage
- ✓ Bluetooth™ monitoring with Sentinel-LNX™



PRODUCT NOTES

Compatible with outboards up to 60 A continuous alternator output. Recommended alternator charging voltage: 14.5 V ± 0.3 V. BMS controlled charge cutoff protection activates at 15.4 V. Register within 90 days to receive the additional warranty year. IP67 Ingress Protection. Refer to the User Manual before installation.



SUPPORTED CONFIGURATIONS

Series	Up to 4 Batteries (48 V)
Parallel	Up to 4 Batteries (480 Ah)

Use identical batteries of the same model, capacity, age, and state of charge.



CERTIFICATIONS

UL 1642 (CELLS) • IFT NYTIDB26-016691 • UN38.3 • FCC • RoHS • CE



TIGERLITHIUM.COM

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RESOURCES: tigerlithium.com/resources

Specifications and product information are subject to change without notice.