



- MODEL** TR-48-170-HP
- NOMINAL VOLTAGE** 51.2V
- NOMINAL CAPACITY** 171Ah
- CELL CHEMISTRY** Lithium Iron Phosphate
- CYCLE LIFE** 4000 cycles at 25°C, C/2 rate
- SAFETY & INTELLIGENCE**
  - Continuous voltage, current, and temperature monitoring
  - Redundant safety protections using three levels of fusing
  - Multiple battery disconnects
  - CAN-Bus Communication
  - Bluetooth®
  - Trojan SmartBattery® App for Apple & Android

**PHYSICAL SPECIFICATIONS**

DIMENSIONS INCHES (MM)			WEIGHT <sup>3</sup> LBS. (KG)	TERMINAL TYPE <sup>4</sup>	TERMINAL TORQUE IN-LBS (NM)	INGRESS PROTECTION	LIFTING	EXTERIOR CASE
LENGTH	WIDTH	HEIGHT						
21.5 (544)	12.8 (325)	10.5 (266)	170 (77.2)	M8-1.25 Female	50-60 (5.7-6.8)	IP65	Rope Handles	Powder Coated Sheet Metal

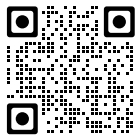
**ELECTRICAL SPECIFICATIONS**

NOMINAL VOLTAGE (V)	CAPACITY AMP-HOURS (AH)	ENERGY (WH)
51.2V	171Ah	8,755 Wh
WORKING VOLTAGE		SELF-DISCHARGE
40.48V to 58.40V		1-3% per month

**TEMPERATURE SPECIFICATIONS**

DISCHARGE TEMPERATURE RANGE	CHARGE TEMPERATURE RANGE
-4°F to 140°F (-20°C TO 60°C)	32°F to 131°F (0°C TO 55°C)
STORAGE TEMPERATURE RANGE	
-40°F to 140°F (-40°C to 60°C)	

**CHARGER SPECIFICATIONS**

CHARGER SETTINGS & CHARGE PERFORMANCE	
Lithium-ion Charger Compatibility Guide - Scan the QR Code	
MAXIMUM CHARGING CURRENT @ TEMPERATURE	
< 32°F (< 0°C)	0A
32°F to 50°F (0°C to 10°C)	50A
50°F to 68°F (10°C to 20°C)	80A
68°F to 113°F (20°C to 45°C)	171A
113°F to 131°F (45°C to 55°C)	30A
> 131°F (> 55°C)	0A

**DISCHARGE SPECIFICATIONS**

PERFORMANCE AND SYSTEM SPECIFICATIONS @ 77°F (25°C)	
Maximum Continuous Discharge Current	300A
Maximum Pulse Discharge Current (30 sec)	425A
Maximum Instantaneous Discharge Current (2 sec)	750A
Maximum Instantaneous Discharge Current (0.2s)	1000A

**INTELLECTUAL PROPERTY**

Patent(s) pending

**SAFETY & FEATURES**

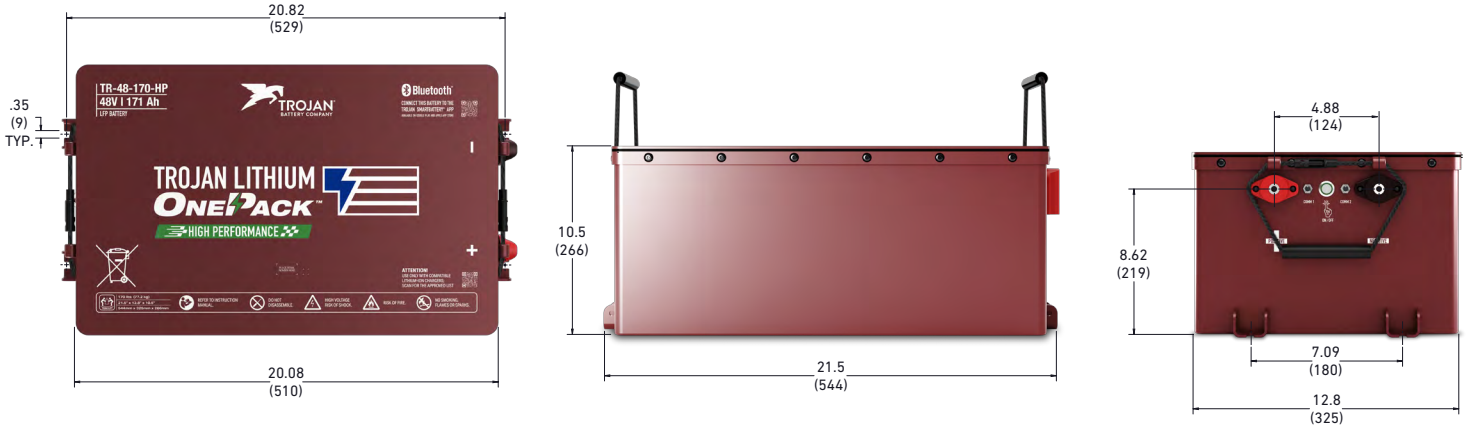
Battery Internal Safety Protections	Short Circuit Current Over/Under Charge Temperature Over/Under Discharge Temperature Over/Under Voltage Over Current Charge Over Current Discharge
Battery External Safety Protections	ON/OFF Push-Button with LED Indicator Terminal Covers Breathing Vent
Battery Features	CAN Communication via 2x M8 CAN Connectors Passive Cell Balancing Sleep Mode Dashboard Push-Button Capability
Bluetooth Features	Instantaneous Display of Battery Metrics
Cell Certification	Certified to UN 38.3
Battery Certifications	Certified to UN 38.3, FCC, CE Complies with UL 2271
Shipping Classification	UN3480, Class 9



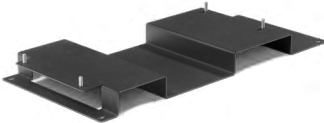



Do not mix with lead-acid batteries when recycling  
Trojan Battery Company products are designed in the USA.  
Made in China.

# BATTERY DIMENSIONS

Dimensions: inches (mm)



BATTERY ACCESSORIES	
<p><b>BATTERY STATE-OF-CHARGE INDICATOR</b></p> <p>Three-Line Display of Voltage, SOC, &amp; Current Audible &amp; Visual Alarms Water &amp; Dust Proof Backlight for Easy Viewing</p> 	<p><b>DASHBOARD POWER BUTTON</b></p> <p>Easily Turn Batteries ON/OFF from Dashboard Water &amp; Dust Proof Easy Dashboard Installation</p> 
<p><b>MOUNTING BRACKET KITS</b></p> <p>Custom Mounting Brackets for Specific Vehicles All Hardware Included Easy Drop-in Installation</p> 	<p><b>MOBILE APPLICATION</b></p> <p>Trojan Smartbattery® Virtual Battery Monitoring App Connects via Bluetooth® to Battery Displays SOC, Voltage, Current, Temperature, &amp; More Connects to Multiple Batteries at One Time Available on Google Play and Apple iOS Store</p> 

## TECHNICAL SUPPORT

Call Trojan Battery Technical Support:  
United States and Canada: 800-423-6569, dial ext. 3045  
International: +1-562-236-3045

Email: [technical@trojanbattery.com](mailto:technical@trojanbattery.com)

On the web: [trojanbattery.com/resources/technical-support](http://trojanbattery.com/resources/technical-support)



A. Terminal images are representative only  
B. Weight may vary

