

<b>MODEL</b>	TR-48-110-M
<b>NOMINAL VOLTAGE</b>	51.2V
<b>NOMINAL CAPACITY</b>	105Ah
<b>CELL CHEMISTRY</b>	Lithium Iron Phosphate
<b>CYCLE LIFE</b>	4000 cycles at 25°C, C/2 rate, 80% DoD to 80% of initial capacity
<b>SAFETY &amp; INTELLIGENCE</b>	<ul style="list-style-type: none"> <li>• Continuous voltage, current, and temperature monitoring</li> <li>• Redundant safety protections using three levels of fusing</li> <li>• Multiple battery disconnects</li> <li>• CAN-Bus Communication</li> <li>• Bluetooth®</li> <li>• Trojan SmartBattery® App for Apple &amp; Android</li> </ul>



### 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						
21.4 (544)	12.6 (320)	8.6 (219)	120 (54)	M8-1.25 Female	50-60 (5.7-6.8)	IP67	Rope Handles	Powder Coated Sheet Metal


### ELECTRICAL SPECIFICATIONS

NOMINAL VOLTAGE (V)	CAPACITY AMP-HOURS (AH)	ENERGY (WH)
51.2V	105Ah	5,376 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	
Recommended Charging Voltage	54.7V to 56.0V
	
MAXIMUM CHARGING CURRENT @ TEMPERATURE	
< 32°F (< 0°C)	0A
32°F to 50°F (0°C to 10°C)	31.5A
50°F to 68°F (10°C to 20°C)	52.5A
68°F to 113°F (20°C to 45°C)	105A
113°F to 131°F (45°C to 55°C)	21A
> 131°F (> 55°C)	0A

### DISCHARGE SPECIFICATIONS

PERFORMANCE AND SYSTEM SPECIFICATIONS @ 77°F (25°C)	
Maximum Continuous Discharge Current	180A
Maximum Pulse Discharge Current (30 sec)	300A
Maximum Instantaneous Discharge Current (2 sec)	500A

### SAFETY & FEATURES

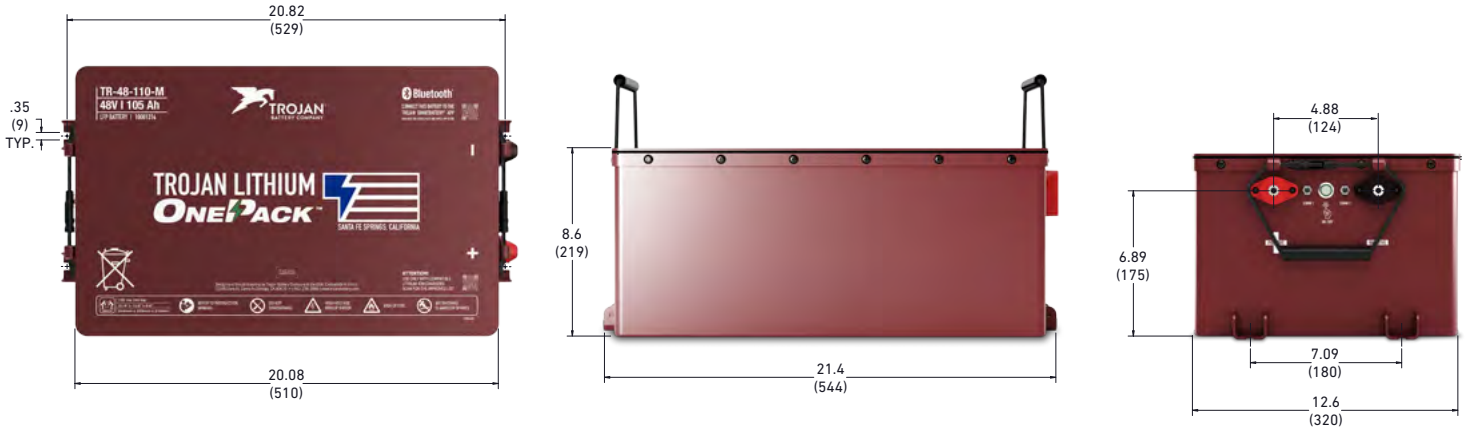
Battery Internal Safety Protections	Short Circuit Current Over/Under Charge Temperature Over/Under Discharge Temperature Over/Under Voltage Over Current Charge Over Current Discharge
Battery External Safety Protections	ON/OFF Push-Button with LED Indicator Terminal Covers Breathing Vent
Battery Features	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, UL 1973, UL 9540A
Battery Certifications	Certified to UN 38.3, FCC, CE Complies with UL 2271, UL 2580, UL 1998, UL 991
Shipping Classification	UN3480, Class 9







Do not mix with lead-acid batteries when recycling  
Design and final processing by Trojan Battery Company in the USA.  
Cells 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

