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|----------------------------------|---|
| MODEL | TR-48-170-M |
| NOMINAL VOLTAGE | 51.2V |
| NOMINAL CAPACITY | 171Ah |
| CELL CHEMISTRY | Lithium Iron Phosphate |
| CYCLE LIFE | 4000 cycles at 25°C, C/2 rate, 80% DoD to 80% of initial capacity |
| SAFETY & INTELLIGENCE | <ul style="list-style-type: none"> • 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 ³ LBS. (KG) | TERMINAL TYPE ⁴ | TERMINAL TORQUE IN-LBS (NM) | INGRESS PROTECTION | LIFTING | EXTERIOR CASE |
|------------------------|------------|------------|-------------------------------|----------------------------|-----------------------------|--------------------|--------------|---------------------------|
| LENGTH | WIDTH | HEIGHT | 170 (77.2) | M8-1.25 Female | 50-60 (5.7-6.8) | IP65 | Rope Handles | Powder Coated Sheet Metal |
| 21.5 (544) | 12.8 (325) | 10.5 (266) | | | | | | |

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 |  |
| Recommended Charging Voltage | |
| MAXIMUM CHARGING CURRENT @ TEMPERATURE | |
| < 32°F (< 0°C) | 0A |
| 32°F to 50°F (0°C to 10°C) | 51.3A |
| 50°F to 68°F (10°C to 20°C) | 85.5A |
| 68°F to 113°F (20°C to 45°C) | 171A |
| 113°F to 131°F (45°C to 55°C) | 34.2A |
| > 131°F (> 55°C) | 0A |

DISCHARGE SPECIFICATIONS

| PERFORMANCE AND SYSTEM SPECIFICATIONS @ 77°F (25°C) | |
|---|------|
| Maximum Continuous Discharge Current | 200A |
| Maximum Pulse Discharge Current (30 sec) | 300A |
| Maximum Instantaneous Discharge Current (2 sec) | 525A |

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 |

INTELLECTUAL PROPERTY

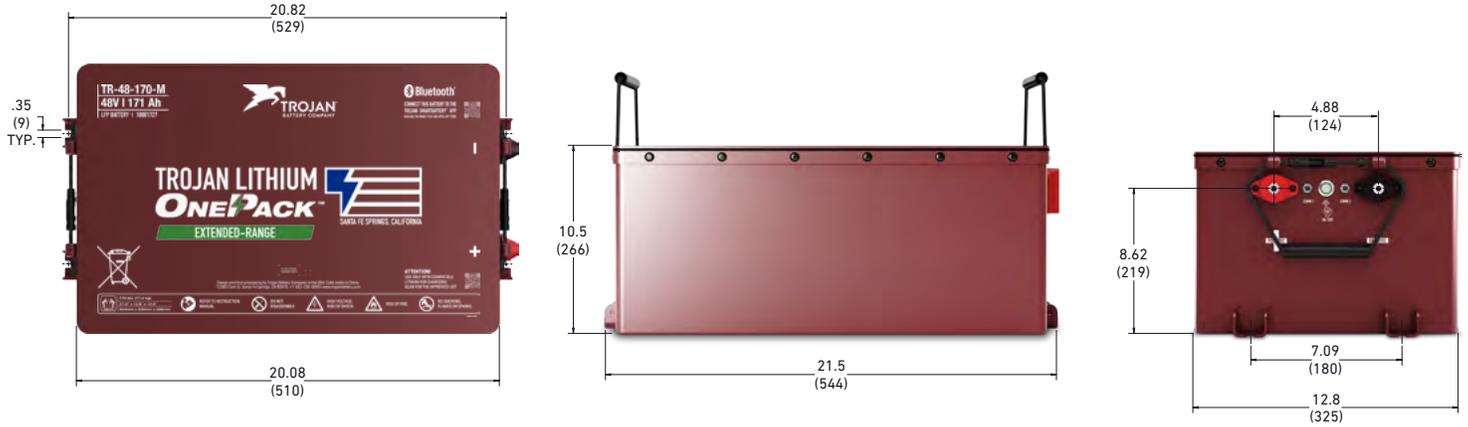
| |
|-------------------|
| Patent(s) pending |
|-------------------|



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>BATTERY STATE-OF-CHARGE INDICATOR</p> <p>Three-Line Display of Voltage, SOC, & Current Audible & Visual Alarms Water & Dust Proof Backlight for Easy Viewing</p>  | <p>DASHBOARD POWER BUTTON</p> <p>Easily Turn Batteries ON/OFF from Dashboard Water & Dust Proof Easy Dashboard Installation</p>  |
| <p>MOUNTING BRACKET KITS</p> <p>Custom Mounting Brackets for Specific Vehicles All Hardware Included Easy Drop-in Installation</p>  | <p>MOBILE APPLICATION</p> <p>Trojan Smartbattery® Virtual Battery Monitoring App Connects via Bluetooth® to Battery Displays SOC, Voltage, Current, Temperature, & 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

On the web: trojanbattery.com/resources/technical-support



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

