



The Trojan OnePack™ Series 2 delivers reliable, safe lithium power to golf carts and LSVs while offering convenient features including over-the-air updates, improved durability, and self-heating functionality.

MODEL	TR-48-105-M & TR-48-105-M-HT
NOMINAL VOLTAGE	51.2V
NOMINAL CAPACITY	105 Ah
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 using three levels of safety protections - Multiple battery disconnects - CAN-Bus Communication - Bluetooth® Connectivity & Over-The-Air Updates - Trojan SmartBattery® App for Apple & Android



SELF HEATING | S2

48V

PHYSICAL SPECIFICATIONS

DIMENSIONS INCHES (MM)			WEIGHT [§] LBS. (KG)	TERMINAL TYPE [†]	TERMINAL TORQUE IN-LBS (NM)	INGRESS PROTECTION	LIFTING	EXTERIOR CASE
LENGTH	WIDTH	HEIGHT	120 (54)	M8-1.25 Female	88.5-106 (10-12)	IP67	Rope Handles	Powder Coated Sheet Metal
21.5 (544)	14.0 (355)	9.2 (234)						

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 CELL TEMPERATURE RANGE	CHARGE CELL 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	HEATER ACTIVATION CELL TEMPERATURE
-40°F to 140°F (-40°C to 60°C)	<34°F (<1°C)

CHARGER SPECIFICATIONS

CHARGER SETTINGS & CHARGE PERFORMANCE	
Lithium-ion Charger Compatibility Guide - Scan the QR Code	
MAXIMUM CHARGING CURRENT @ CELL TEMPERATURE	
< 32°F (< 0°C)	0A
32°F to 50°F (0°C to 10°C)	30A
50°F to 68°F (10°C to 20°C)	50A
68°F to 113°F (20°C to 45°C)	100A
113°F to 131°F (45°C to 55°C)	20A
> 131°F (> 55°C)	0A

INTELLECTUAL PROPERTY

Patent(s) pending

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)	525A

SAFETY & FEATURES

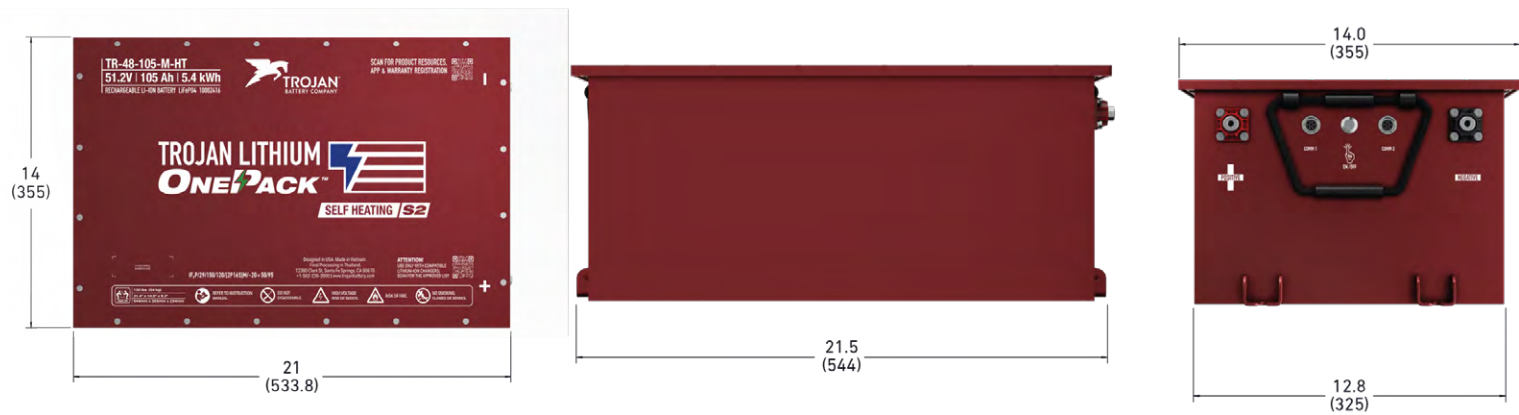
Battery Internal Safety Protections	Short Circuit Current Over/Under Charge Temperature Over/Under Discharge Temperature Over/Under Voltage Over Current Charge Over Current Discharge
Battery External Safety Protections	ON/OFF Push-Button with LED Indicator Terminal Covers Breathing Vent
Battery Features	2x M16 Communication Connectors Passive Cell Balancing Sleep Mode Heated Capability Dashboard Push-Button Capability
Bluetooth Features	Instantaneous Display of Battery Metrics Over-The-Air (OTA) Updates
Cell Certification	Certified to UN 38.3, IEC 62619
Battery Certifications	Certified to UN 38.3, IEC 62619, FCC, CE, ROHS, REACH
Shipping Classification	UN3480, Class 9



Do not mix with lead-acid batteries when recycling

BATTERY DIMENSIONS

Dimensions: inches (mm)



BATTERY ACCESSORIES

BATTERY STATE-OF-CHARGE INDICATOR	DASHBOARD POWER BUTTON
Three-Line Display of Voltage, SOC, & Current Audible & Visual Alarms Water & Dust Proof Backlight for Easy Viewing	Easily Turn Batteries ON/OFF from Dashboard Water & Dust Proof Easy Dashboard Installation
MOUNTING BRACKET KITS	MOBILE APPLICATION
Custom Mounting Brackets for Specific Vehicles All Hardware Included Easy Drop-in Installation	Trojan Smartbattery® Virtual Battery Monitoring App Connects via Bluetooth® to Battery Over-The-Air (OTA) Updates Displays SOC, Voltage, Current, Temperature, & More Connects to Multiple Batteries at One Time Available on Google Play and Apple iOS Store
CHARGERS	AC RECEPTACLES
Chargers Available for Every Voltage Multiple Power Options for Each Voltage Hardware Included Charger Compatibility Guide Available	Custom AC Receptacle for Specific Vehicles Hardware Included Easy Drop-in Installation

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

