

MODEL	TR-36-105-M
NOMINAL VOLTAGE	38.4V
NOMINAL CAPACITY	105Ah
CELL CHEMISTRY	Lithium Iron Phosphate
CYCLE LIFE	3000 cycles at 25°C, C/2 rate, 80% DoD to 80% of initial capacity
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 ³ LBS. (KG)	TERMINAL TYPE ⁴	TERMINAL TORQUE IN-LBS (NM)	INGRESS PROTECTION	LIFTING	EXTERIOR CASE
LENGTH	WIDTH	HEIGHT	86 (39)	M8-1.25 Female	88.5-106 (10-12)	IP67	Rope Handles	Powder Coated Sheet Metal
15.7 (399)	10.0 (255)	11.8 (301)						

ELECTRICAL SPECIFICATIONS

NOMINAL VOLTAGE (V)	CAPACITY AMP-HOURS (AH)	ENERGY (WH)
38.4V	105Ah	4,032 Wh
WORKING VOLTAGE		SELF-DISCHARGE @ 77°F (25°C)
30.4V to 43.8V		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	41.0V to 42.0V	
MAXIMUM CHARGING CURRENT @ 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	

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	2x Communication Connectors Passive Cell Balancing Sleep Mode Dashboard Push-Button Capability
Bluetooth Features	Instantaneous Display of Battery Metrics
Cell Certification	UN38.3, IEC 62619, & UL 1973
Battery Certifications	Certified to UN38.3, IEC 62619, FCC, CE, RoHS, REACH Complies with UL 2271
Shipping Classification	UN3480, Class 9

INTELLECTUAL PROPERTY

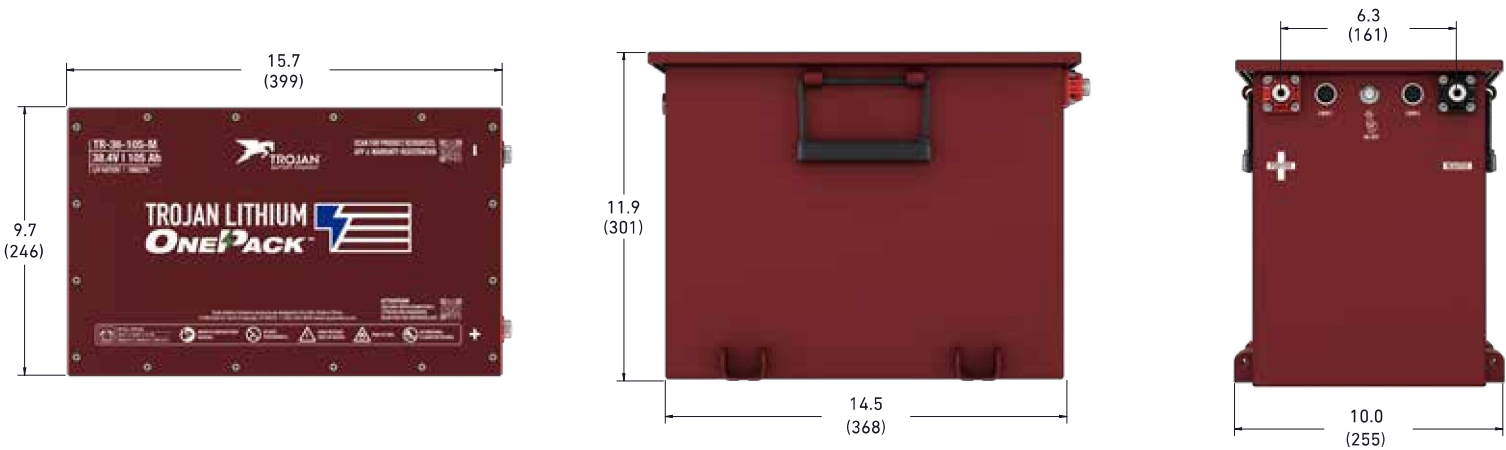
Patent(s) pending

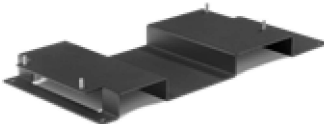


Do not mix with lead-acid batteries when recycling
 Trojan Battery Company products are designed in the USA. Made in China.

BATTERY DIMENSIONS

Dimensions: inches (mm)



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

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

