



| | |
|------------------|---|
| MODEL | TRL-GC2-36-M |
| VOLTAGE | 38.4V |
| NOMINAL CAPACITY | 45Ah (1,751Wh) |
| CASE | Maroon Colored ABS/FR |
| BATTERY | Deep-Cycle Lithium Iron Phosphate |
| CYCLE LIFE | >4000 cycles @70% DoD (to 70% of initial capacity) at 25°C* |
| INTELLIGENCE | Internal battery disconnect, redundant protections using three levels of fusing, state of charge indicator with aging compensation, CAN-Bus communication |



PHYSICAL SPECIFICATIONS

| BCI | MODEL | TERMINAL TYPE ¹ | TERMINAL TORQUE IN-LBS (NM) | DIMENSIONS INCHES (MM) | | | WEIGHT ² LBS. (KG) | HANDLES | INSTALLATION ORIENTATION |
|-----|--------------|----------------------------|-----------------------------|------------------------|-----------|------------|-------------------------------|-----------|--------------------------|
| | | | | LENGTH | WIDTH | HEIGHT | | | |
| GC2 | TRL-GC2-36-M | M8-1.25 x 15mm Stud | 80-90 (9-10) | 10.4 (264) | 7.1 (180) | 10.9 (278) | 37 (16.8) | Removable | Vertical / Horizontal |


ELECTRICAL SPECIFICATIONS

| VOLTAGE | CAPACITY AMP-HR (AH) @ 77°F (25°C) | | | ENERGY (WH) |
|---------|------------------------------------|--------------|---------------|-------------|
| | 5-Hr (9A) | 10-Hr (4.5A) | 20-Hr (2.25A) | 20-Hr |
| 38.4V | 45 | 45 | 45 | 1,751 |

OPERATIONAL SPECIFICATIONS

| OPERATING TEMPERATURE RANGE | STORAGE TEMPERATURE RANGE |
|-------------------------------|--------------------------------|
| -4°F to 113°F (-20°C to 45°C) | -40°F to 140°F (-40°C to 60°C) |

CHARGER INSTRUCTIONS

| CHARGER SETTINGS (USING LITHIUM-ION CHARGER) | | |
|--|----------------|---|
| Lithium-ion Charger Compatibility Guide | |  |
| 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) | 13A | |
| 50°F to 68°F (10°C to 20°C) | 23A | |
| 68°F to 113°F (20°C to 45°C) | 45A | |
| > 113°F (> 45°C) | 0A | |

INTELLECTUAL PROPERTY

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

OTHER SPECIFICATIONS

| PERFORMANCE AND SYSTEM SPECIFICATIONS @ 77°F (25°C) | |
|---|---|
| Maximum Continuous Discharge Current | 60A |
| Maximum Pulse Discharge Current (30 sec) | 100A |
| Maximum Instantaneous Discharge Current (0.4 sec) | 160A |
| Reserve Capacity @ 25A | 108 Min |
| Battery Internal Protection | Short Circuit Current Temperature Over Voltage Under Voltage Over-current |
| Battery Functions | Cell Balancing State of Charge CAN-Bus Communication |
| Safety Systems | Fuse, hardware, BMS |
| Discharge Voltage Cutoff | 30.36V |
| Environmental Protection | IP67 |
| Shipping Classification | UN3480, Class 9 |
| Case Flame Rating | UL94 V-0 |

SAFETY/AGENCY INFORMATION

| CERTIFICATIONS AND COMPLIANCE | | |
|-------------------------------|--|-------------|
| UN / DOT 38.3 | Cells Certified To: IEC 62133-2, UL 1642, UN38.3 | FCC Part 15 |
| REACH | Complies With: UL 2271, UL 1998, UL 991 | CE |

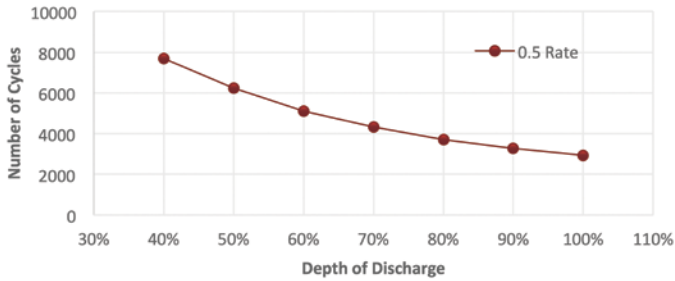


Do not mix with lead-acid batteries when recycling

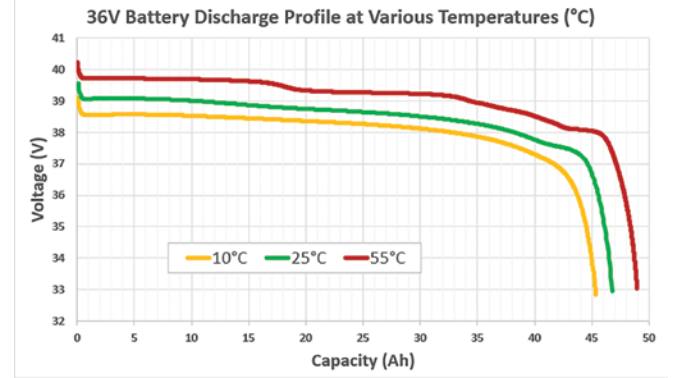
*At C/2 rate and depending on application/user conditions

CYCLE LIFE

To 70% INITIAL CAPACITY



DISCHARGE PROFILE



STATUS INDICATOR GUIDE

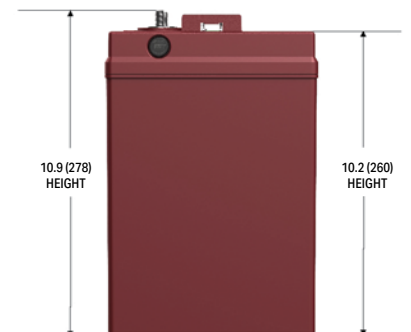
| LED COLOR INDICATION | BATTERY CONDITION | INDICATOR VISUAL |
|----------------------|---|------------------|
| 4 Blue LEDs | 76% to 100% Capacity Remaining | |
| 3 Blue LEDs | 51% to 75% Capacity Remaining | |
| 2 Blue LEDs | 26% to 50% Capacity Remaining | |
| 1 Blue LED | 0% to 25% Capacity Remaining | |
| Red LED | Active Alarm / Fault Condition in the Battery | |
| Green LED | Normal Operation | |

The Trojan® GC2 36V Lithium-Ion features include a battery status push button and indicator light on the top of the case. A momentary press of the button displays the battery's State of Charge and operating status.

NOTE: Consult Trojan® GC2 Series Lithium-Ion Batteries User's Guide for more information at trojanbattery.com.

BATTERY DIMENSIONS

Dimensions: inches (mm)



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

UN38.3 PASSED
TRANSPORTATION
SAFETY
CERTIFIED



TROJAN BATTERY
COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV
= ISO 9001:2015 =

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

