



- 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** > 4,000 Cycles @ 70% DOD (To 70% initial capacity) at 25 °C
- FEATURES** Internal Battery Disconnect, Redundant protections using three levels of fusing, State of Charge Gauge with Aging Compensation, CAN-bus Communication



PHYSICAL SPECIFICATIONS

BCI	MODEL	TERMINAL TYPE*	TERMINAL TORQUE IN-LBS (NM)	DIMENSIONS INCHES (MM)			WEIGHT [†] 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

ELECTRICAL SPECIFICATIONS

VOLTAGE	CAPACITY AMP-HOURS (AH)			ENERGY (KWH)	SHORT CIRCUIT CURRENT
38.4V	5-Hr (9A)	10-Hr (4.5A)	20-Hr (2.25A)	20-Hr	Fused 150A
	45	45	45	1.751	

OPERATIONAL SPECIFICATIONS

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

CHARGER INSTRUCTIONS

CHARGER SETTINGS (USING LITHIUM-ION CHARGER)	
Recommended Charging Voltage	41.0 - 42.0V
Maximum Charging Current @ Temperature	
< 32°F (< 0°C)	0A
32°F to 50°F (0 to 10°C)	13A
50°F to 68°F (10 to 20°C)	23A
68°F to 113°F (20 to 45°C)	45A
> 113°F (> 45°C)	0A

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)	155A
Reserve Capacity @ 25A	108 Minutes
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
Charge Voltage Cutoff	43.68V
Environmental Protection	IP67
Shipping Classification	UN3480, Class 9
Case Flame Rating	UL94 V-0

SAFETY/AGENCY INFORMATION

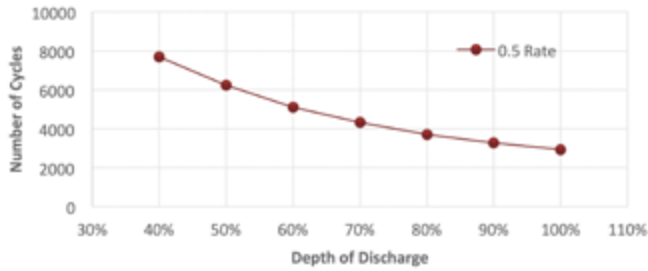
CERTIFIED TO THE FOLLOWING		
UN/DoT 38.3	Cells: IEC 62133-2, UL 1642, UN38.3	FCC Part 15
ROHS Compliant	UL 2271, UL 1998, UL 991: (Pending)	CE



Do not mix with lead-acid batteries when recycling
 Inquire about recycling method at your local TBC Dealer or nearest hardware store

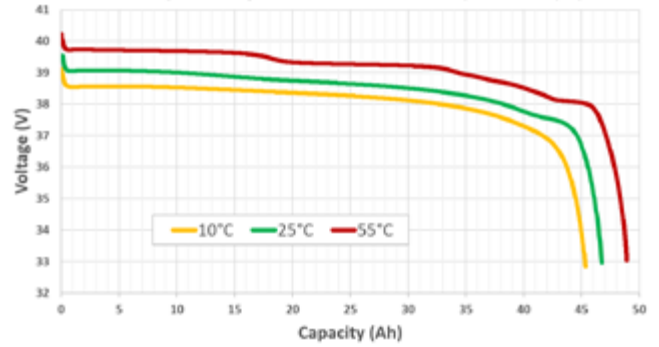
CYCLE LIFE

To 70% INITIAL CAPACITY



DISCHARGE PROFILE

36V Battery Discharge Profile at Various Temperatures (°C)



STATE OF CHARGE INDICATOR GUIDE

LED COLOR INDICATION	BATTERY CONDITION	INDICATOR VISUAL
4 Blue LEDs	76% - 100% Capacity Remaining	
3 Blue LEDs	51% - 75% Capacity Remaining	
2 Blue LEDs	26% - 50% Capacity Remaining	
1 Blue LED	0% - 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) - shown with M8



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/tech-support

UN38.3 PASSED
 TRANSPORTATION
 SAFETY
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TROJAN BATTERY
 COMPANY WITH
 QUALITY SYSTEM
 CERTIFIED BY DNV
 = ISO 9001:2015 =

- A. Terminal images are representative only
- B. Weight may vary
- C. Not included

