



24V LITHIUM-ION
BATTERY

MODEL	TRL GC2-24-M
VOLTAGE	25.6V
NOMINAL CAPACITY	65Ah (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 ¹	TERMINAL TORQUE IN-LBS (NM)	DIMENSIONS INCHES (MM)			WEIGHT ² LBS. (KG)	HANDLES	INSTALLATION ORIENTATION
GC2	TRL-GC2-24-M	M8-1.25 x 15mm Stud	80-90 (9-10)	LENGTH	WIDTH	HEIGHT	37 (16.8)	Removable	Vertical
				10.4 (264)	7.1 (180)	10.9 (278)			

ELECTRICAL SPECIFICATIONS

VOLTAGE	CAPACITY AMP-HOURS (AH)			ENERGY (KWH)	SHORT CIRCUIT CURRENT
25.6V	5-Hr (13A)	10-Hr (6.5A)	20-Hr (3.25A)	20-Hr	Fused 150A
	65	65	65	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	27.36 - 28.0V
Maximum Charging Current @ Temperature	
< 32°F (< 0°C)	0A
32°F to 50°F (0 to 10°C)	20A
50°F to 68°F (10 to 20°C)	34A
68°F to 113°F (20 to 45°C)	68A
> 113°F (> 45°C)	0A

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

OTHER SPECIFICATIONS

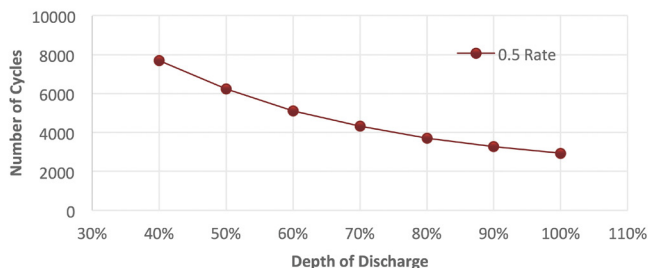
PERFORMANCE AND SYSTEM SPECIFICATIONS @ 77°F (25°C)	
Maximum Continuous Discharge Current	90A
Maximum Pulse Discharge Current (30 sec)	150A
Maximum Instantaneous Discharge Current (0.4 sec)	155A
Reserve Capacity @ 25A	156 Minutes
Battery Internal Protection	Short Circuit Current Temperature Over Voltage Under Voltage Over-current
Battery Functions	Cell Balancing, State of Charge, CAN-bus Communication
Safety Systems	Fuse, hardware, BMS
Discharge Voltage Cutoff	20.24V
Charge Voltage Cutoff	29.12V
Environmental Protection	IP67
Shipping Classification	UN3480, Class 9
Case Flame Rating	UL94 V-0



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

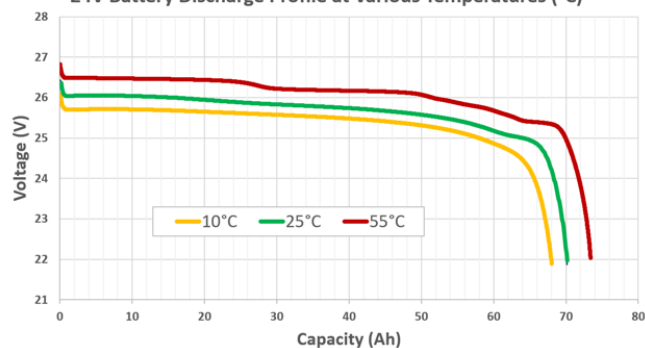
CYCLE LIFE

To 70% INITIAL CAPACITY



DISCHARGE PROFILE

24V Battery Discharge Profile at Various Temperatures (°C)



STATE OF CHARGE INDICATOR GUIDE

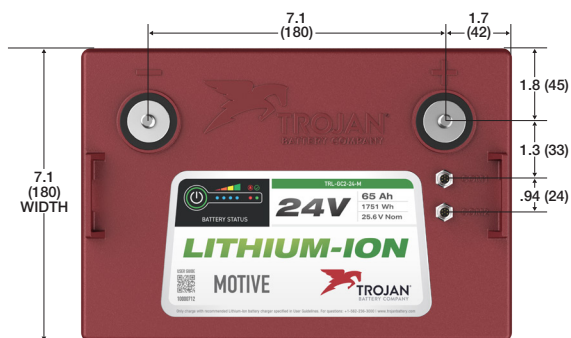
LED COLOR INDICATION	BATTERY CONDITION	INDICATOR VISUAL
4 Blue LEDs	76% - 100% Capacity Remaining	
3 Blue LEDs	51% - 75% Capacity Remaining	
2 Blue LEDs	26% - 50% Capacity Remaining	
1 Blue LED	0% - 25% Capacity Remaining	
Red LED	Active Alarm / Fault Condition in the Battery	
Green LED	Normal Operation	

The Trojan® GC2 24V 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 24V Lithium-Ion 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
CERTIFIED



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

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

