

<b>MODEL</b>	TR GC2-48-G
<b>VOLTAGE</b>	51.2V
<b>NOMINAL CAPACITY</b>	30Ah (1,536Wh)
<b>CASE</b>	ABS/FR
<b>BATTERY</b>	Deep-Cycle Lithium Iron Phosphate
<b>COLOR</b>	Maroon
<b>CYCLE LIFE</b>	> 4,000 Cycles @ 70% DOD*
<b>INTELLIGENCE</b>	Multiple Microprocessors, State of Charge Gauge with Aging Compensation, Current Sensor, Fuse, CAN Bus



### PHYSICAL SPECIFICATIONS

BCI	MODEL	TERMINAL TYPE*	TERMINAL TORQUE IN-LBS (NM)	DIMENSIONS INCHES (MM)			WEIGHT* LBS. (KG)	HANDLES	INSTALLATION ORIENTATION
				LENGTH	WIDTH	HEIGHT			
GC2	TR GC2-48-G	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
	5-Hr (18A)	10-Hr (9A)	20-Hr (4.6A)		
51.2V	30	30	30	1.536	Fused 150A

### 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	
Recommended Charging Voltage	55.2 - 57.6V
Recommended Float Voltage	55.2V
Maximum Charging Current @ Temperature	
< 32°F (< 0°C)	0A
32°F to 50°F (0-10°C)	10A
50°F to 68°F (10-20°C)	17A
68°F to 113°F (20-45°C)	34A
> 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	
Maximum Continuous Discharge Current @ 77°F (25°C)	30A
Maximum Pulse Discharge Current @ 77°F (25°C)	100A
Maximum Instantaneous Discharge Current	150A
Reserve Capacity @ 25 Amps	72 Min
Battery Internal Protection	Short Circuit Current Temperature Over Voltage Under Voltage Over-current
Battery Functions	Cell Balancing, State of Charge, CAN
Safety Systems	Fuse, hardware, BMS
Discharge Voltage Cutoff	40.5V ± 5%
Charge Voltage Cutoff	40.8V ± 5%
Environmental Protection	IP67
Shipping Classification	UN3480, Class 9
Case Flame Rating	UL94 V-0

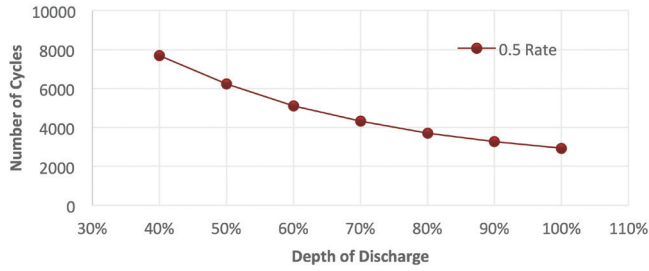


Do not mix with lead-acid batteries when recycling

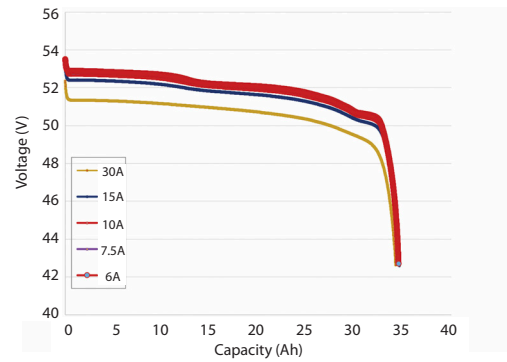
\*To 70% initial capacity

## CYCLE LIFE

### To 70% INITIAL CAPACITY



## DISCHARGE PROFILE



## 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 48V 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 48V Lithium-Ion User's Guide for more information at [trojanbattery.com](http://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](mailto:technical@trojanbattery.com)

On the web: [trojanbattery.com/tech-support/](http://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

