

LITHIUM-ION

MODEL	TR-GC2-48-G
VOLTAGE	51.2V
NOMINAL CAPACITY	30Ah (1,536Wh)
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 <sup>*</sup>	TERMINAL TORQUE IN-LBS (NM)	DIMENSIONS INCHES (MM)		WEIGHT <sup>®</sup> LBS. (KG)	HANDLES	INSTALLATION ORIENTATION
GC2 TR GC2-48-G M8-1.25 x 15	Mo. 1.25 x 15mm Stud	5mm Stud 80-90 (9-10)	LENGTH	WIDTH	HEIGHT	37 (16.8)	Removable	Vertical / Horizontal
	M8-1.25 X 15mm Stud		10.4 (264)	7.1 (180)	10.9 (278)	37 (10.0)	Relitovable	Vertical/ Holizontal

ELECTRICAL SPECIFICATIONS				
VOLTAGE	CAPACITY AMP-HR (AH) @ 77°F (25°C) ENERGY (WH)			ENERGY (WH)
51.2V	5-Hr (18A)	10-Hr (9A)	20-Hr (4.6A)	20-Hr
	30	30	30	1,536

CHARGER INSTRUCTIONS				
CHARGER SETTINGS (USING LITHIUM-ION CHARGER)				
Lithium-ion Charger Compatibility Guide				
Recommended Charging Voltage 55.2V to 57.6V				
Maximum Charging Current @ Temperature				
< 32°F (< 0°C) 0A				
32°F to 50°F (0°C to 10°C) 10A				
50°F to 68°F (10°C to 20°C) 17A				
68°F to 113°F (20°C to 45°C)	34A			
> 113°F (> 45°C) 0A				

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	



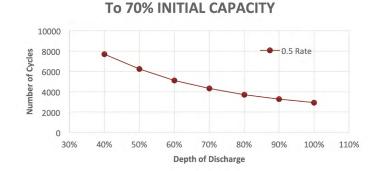
Do not mix with lead-acid batteries when recycling \*At C/2 rate and depending on application/user conditions

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)				

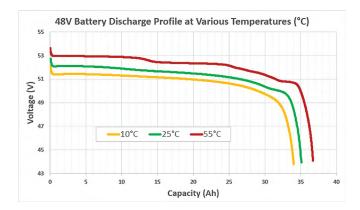
### **OTHER SPECIFICATIONS**

PERFORMANCE AND SYSTEM SPECIFICATIONS @ 77°F (25°C)			
Maximum Continuous Discharge Current	45A		
Maximum Pulse Discharge Current (30 sec)	100A		
Maximum Instantaneous Discharge Current (0.4 sec)	160A		
Reserve Capacity @ 25A	72 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	40.5V		
Environmental Protection	IP67		
Shipping Classification	UN3480, Class 9		
Case Flame Rating	UL94 V-0		

### **CYCLE LIFE**



### **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 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 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



A. Terminal images are representative onlyB. Weight may vary

TROJAN BATTERY COMPANY

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