

DATA SHEET



MODEL TR 12.8-92 Li-ion

VOLTAGE 12.8V

NOMINAL CAPACITY 92Ah (1,180Wh)

CASE PC/PBT Resin Blend, IP67 Enclosure, UL94 V-0

BATTERY Deep-Cycle Lithium Iron Phosphate

COLOR Maroon

CYCLE LIFE >5,000 Cycles @ 80% DOD*

INTELLIGENCE Integrated Microprocessor, State of Charge Gauge,

Integrated Contactor, Current Sensor, Fuse





12.8 VOLT

PHYSICAL SPECIFICATIONS

BCI	Model	Terminal Type	Dimensions Inches (mm)			Weight Lbs. ^A (kg)	Handles	Installation Orientation
Group 24 TR 12.8	TD 10 0 00	M8 - 1.25	Length	Width	Height	07 (10 0)	Molded	Horizontal and Vertical
	IN 12.0 - 92	Threaded Hole	10.2 (259)	6.6 (168)	8.5 (216)	27 (12.3)	ivioided	nunzuntai ahu verticai

ELECTRICAL SPECIFICATIONS

Voltage	Capacity Amp-Hours (Ah)			Energy (kWh)	Short Circuit Current (A)
12.8V	5-Hr (18A)	10-Hr (9A)	20-Hr (4.6A)	20-Hr	Fused at 400 Amps
	92	92	92.5	1.18	ruseu at 400 Amps

OPERATIONAL DATA

Operating Temperature Range	Storage Temperature Range
-4°F to 140°F (-20°C to 60°C) At Temperatures Below 32°F (0°C) Charging Current Reduced	-40°F to 140°F (-40°C to 60°C)

CHARGING INSTRUCTIONS

Charger Settings				
Recommended Charging Voltage	14.4 - 14.8V			
Recommended Float Voltage	13.8V			
Maximum Charging Current @ Temperature				
> 32°F (0°C)	92A			
14° to 32°F (-10° to 0°C)	12.5A			
-4° to 14°F (-20° to -10°C)	5A			

RECYCLE RESPONSIBLY







Do not mix with Lead Acid Batteries when Recycling.

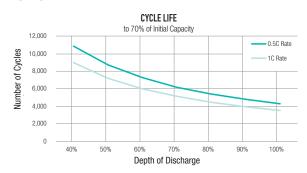
*To 70% of Initial Capacity.

OTHER SPECIFICATIONS

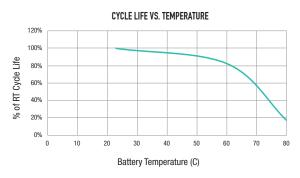
Electrical Features				
Continuous Discharge Current	250 Amps			
Pulse Discharge Current @ 77°F (25°C)	350 Amps for 30 Seconds			
Communication	CAN-Open			
Reserve Capacity @ 25 Amps	220 Min			
BMS Protections	Cell-Level Voltage, Temperature, Over Voltage, Under Voltage, Over-current			
BMS Functions	Cell Balancing, State of Charge			
Safety Systems	Contactor, Fuse, BMS			
Series Connections	Up to 4S (51.2V)			
Parallel Connections	Up to 20P			
Discharge Voltage Cutoff	9.5V ± 5%			
Charge Voltage Cutoff	15.2V ± 5% for 5 Seconds			
Data Logging	Total Lifetime Amp Hours, Recent Faults			
Other Features				
Environmental Protection	IP67			
Shipping Classification	UN3480, Class 9, UN38.3 Certified			
Case Flame Rating	Non-Flammable UL94 V-0			

NOTE: See Trillium User's Guide for Proper Operation.

CYCLE LIFE

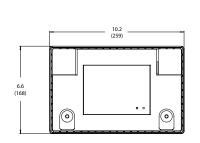


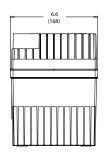
CYCLE LIFE VS. TEMPERATURE



BATTERY DIMENSIONS

Dimensions Inches (mm) - shown with M8





TERMINAL CONFIGURATIONS^B



SAFETY/AGENCY INFORMATION

Certified to the Following			
UN/DoT 38.3	IEC 62133		
ROHS Compliant	UL 2271 (Q1 2019)*		
TUV*	UL 1642 (Cells)		

*Pending

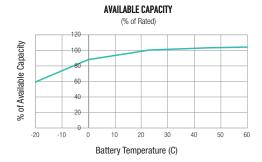




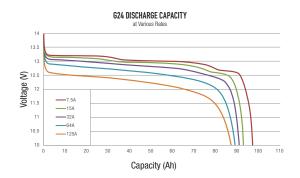


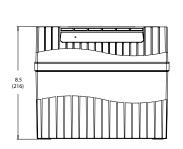
- Weight may vary.
 Terminal images are representative only.

AVAILABLE CAPACITY



G24 DISCHARGE CAPACITY







Ask your Trojan Representative for an accessory to match the height of the Trojan T-105 Battery. Note: Available in 2019

STATE OF CHARGE INDICATOR (GAUGE)

Trillium Group 24 and Group 27's built-in smart battery features include a battery status push button and indicator light on the top of the case. After the button is pressed, the indicator light will show one of the following color patterns for five seconds:

Light Color Pattern	Battery Condition	Gauge
Solid Green	90% - 100% Capacity Remaining	
Blinking Green	50% - 90% Capacity Remaining	SOLID LIGHT BLINKING LIGHT
Solid Yellow	35% - 50% Capacity Remaining	PATTERY LEVEL INDICATOR
Blinking Yellow	20% - 35% Capacity Remaining	PRESS OF THE PRESS
Solid Red	10% - 20% Capacity Remaining	100% 50% 20% 0% STATUS
Blinking Red	0% - 10% Capacity Remaining	10000 5000 2000 500 STATUS
Blinking Green and Red	Battery is shut off	_

NOTE: Consult Trillium User's Guide for more information at trojanbattery.com.

COMMUNICATIONS CONNECTOR

Battery Side	User Side
Deutsch DTM04-3P	Deutsch DTM06-3S
Pin 1: GND/B-	Pin 1: GND/B-
Pin 2: CAN H	Pin 2: CAN H
Pin 3: CAN L	Pin 3: CAN L

