

# DATA SHEET

# RANGER 160

**MODEL Ranger 160 with Master Vent** 

**VOLTAGE 8** 

MATERIAL Polypropylene

**DIMENSIONS** Inches (mm)

BATTERY Deep-Cycle Flooded/Wet Lead-Acid Battery

COLOR Maroon

WATERING HydroLink™ Watering System





#### **PRODUCT + PHYSICAL SPECIFICATIONS**

BCI Group Size	Туре	Voltage	Cell(s)	Terminal Type <sup>G</sup>	Dimensions <sup>c</sup> Inches (mm)		Weight Lbs. (kg)	
					Length	Width	Height <sup>F</sup>	
GC8H	Ranger 160	8	4	2	10.21 (259)	7.10 (180)	11.90 (302)	76 (34)

#### **ELECTRICAL SPECIFICATIONS**

Cranking Performance		Capacity <sup>A</sup> Minutes		Capacity <sup>B</sup> Amp-Hours (AH)				Energy (kWh)	Internal Resistance (mΩ)	Short Circuit Current (amps)
C.C.A. <sup>D</sup> @ 0°F (-18°C)	C.A. <sup>E</sup> @32°F (0°C)	@ 25 Amps	@56 Amps	5-Hr	10-Hr	20-Hr	100-Hr	100-Hr		
_	_	430	160	169	186	204	225	1.80	_	_

#### **CHARGING INSTRUCTIONS**

Charger Voltage Settings (at 77°F/25°C)					
System Voltage	8V	24V	48V		
Bulk Charge	9.88	29.64	59.28		
Float Charge	9.00	27.00	54.00		
Equalize Charge	10.80	32.40	64.80		
Do not install or charge batteries in a sealed or non-ventilated compartment. Constant under or overcharging will damage the battery and shorten its life as with any battery.					

## **CHARGING TEMPERATURE COMPENSATION**

Add	Subtract
0.005 volt per cell for every 1°C below 25°C 0.0028 volt per cell for every 1°F below 77°F	0.005 volt per cell for every 1°C above 25°C 0.0028 volt per cell for every 1°F above 77°F

#### **OPERATIONAL DATA**

Operating Temperature	Self Discharge
-4°F to 113°F (-20°C to +45°C). At temperatures below 32°F (0°C) maintain a state of charge greater than 60%.	5 – 15% per month depending on storage temperature conditions.

## **STATE OF CHARGE** MEASURE OF OPEN-CIRCUIT VOLTAGE

Percentage Charg	ge Specific Gravity	Cell	8 Volt
100	1.277	2.122	8.49
90	1.258	2.103	8.41
80	1.238	2.083	8.33
70	1.217	2.062	8.25
60	1.195	2.040	8.16
50	1.172	2.017	8.07
40	1.148	1.993	7.97
30	1.124	1.969	7.88
20	1.098	1.943	7.77
10	1.073	1.918	7.67







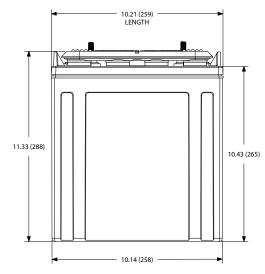


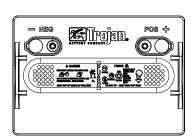


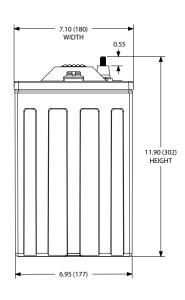
# **TERMINAL** CONFIGURATIONS

**EHPT Embedded High Profile Terminal** Terminal Height Inches (mm) 1.50 (38) Torque Values in-lb (Nm) 95 - 105 (11 - 12) Bolt 5/16

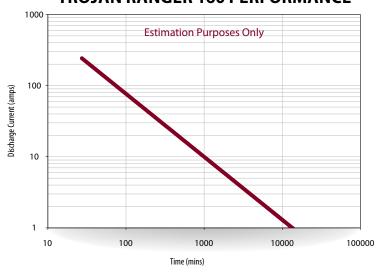
### **BATTERY DIMENSIONS** (shown with EHPT)



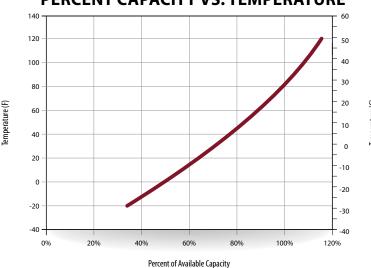




# **TROJAN RANGER 160 PERFORMANCE**



# PERCENT CAPACITY VS. TEMPERATURE



- The number of minutes a battery can deliver when discharged at a constant rate at 80°F (27°C) and maintain a voltage above
- 1.75 W/cell. Capacities are based on peak performance.

  The amount of amp-hours (AH) a battery can deliver when discharged at a constant rate at 80°F (27°C) and maintain a voltage above 1.75 W/cell. Capacities are based on peak performance.

  Dimensions may vary depending on type of handle or terminal. Batteries should be mounted with 0.5 inches (12.7 mm) spacing
- D. C.C.A. (Cold Cranking Amps) the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 0°F
- (-18°C) at a voltage above 1.2 V/cell.

  C.A. (Cranking Amps) the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 32°F (0°C) at a voltage above 1.2 V/cell. This is sometimes referred to as marine cranking amps @ 32°F or M.C.A. @ 32°F.

  Height taken from bottom of the battery to the highest point on the battery. Heights may vary depending on type of terminal.
- Terminal images are representative only

