

<b>MODEL:</b>	31-AGM
<b>VOLTAGE:</b>	12
<b>DIMENSIONS:</b>	Inches (mm)
<b>BATTERY:</b>	VRLA AGM
<b>COLOR:</b>	Maroon (case/cover)
<b>MATERIAL:</b>	Polypropylene
<b>WATERING SYSTEM:</b>	N/A
<b>DESIGN LIFE:</b>	10 Years



## PRODUCT SPECIFICATIONS

BCI GROUP SIZE	TYPE	CAPACITY <sup>A</sup> Minutes	CRANKING Performance		CAPACITY <sup>B</sup> Amp-Hours (AH)				ENERGY (kWh)	TERMINAL Type <sup>G</sup>	DIMENSIONS <sup>C</sup> Inches (mm)			WEIGHT lbs. (kg)
		@25 Amps	C.C.A. <sup>D</sup> @0°F	C.A. <sup>E</sup> @32°F	5-Hr Rate	10-Hr Rate	20-Hr Rate	100-Hr Rate	100-Hr Rate		Length	Width	Height <sup>F</sup>	
12 VOLT DEEP CYCLE AGM BATTERY														
31	31-AGM	177	600	720	82	92	100	111	1.33	6, 11	13.42 (341)	6.80 (173)	9.21 (234)	69 (31)

- A.** 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 V/cell. Capacities are based on peak performance.
- B.** The amount of amp-hours (AH) a battery can deliver when discharged at a constant rate at 80°F (27°C) for the 20-Hour rate and 86°F (30°C) for the 5-Hour rate and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.
- C.** Dimensions are based on nominal size. Dimensions may vary depending on type of handle or terminal. Batteries to be mounted with .5 inches (12.7 mm) spacing minimum.
- 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 at a voltage above 1.2 V/cell.

- E.** C.A. (Cranking Amps) - the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 32°F 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.
- F.** Dimensions taken from bottom of the battery to the highest point on the battery. Heights may vary depending on type of terminal.
- G.** Terminal images are representative only.  
Trojan's battery testing procedures adhere to both BCI and IEC test standards.

## CHARGING INSTRUCTIONS

CHARGER VOLTAGE SETTINGS (AT 77°F/25°C)				
System Voltage	12V	24V	36V	48V
Daily Charge	14.1 – 14.7	28.2 – 29.4	42.3 – 44.1	56.4 – 58.8
Float	13.5	27	40.5	54
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

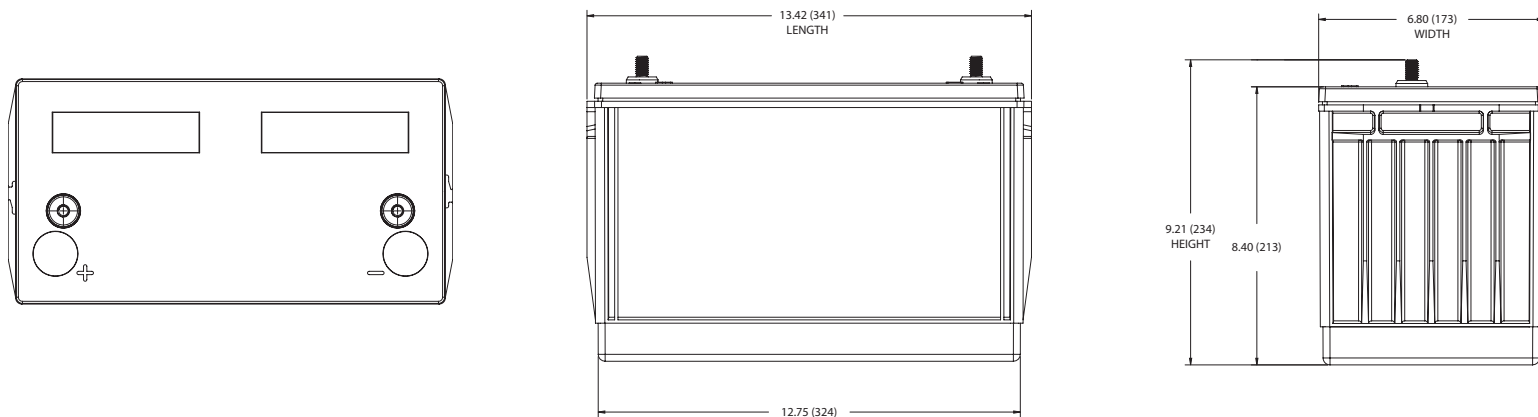
## OPERATIONAL DATA

OPERATING TEMPERATURE	SELF DISCHARGE
-4°F to 131°F (-20°C to +55°C). At temperatures below 32°F (0°C) maintain a state of charge greater than 60%.	Less than 3% per month depending on storage temperature conditions.

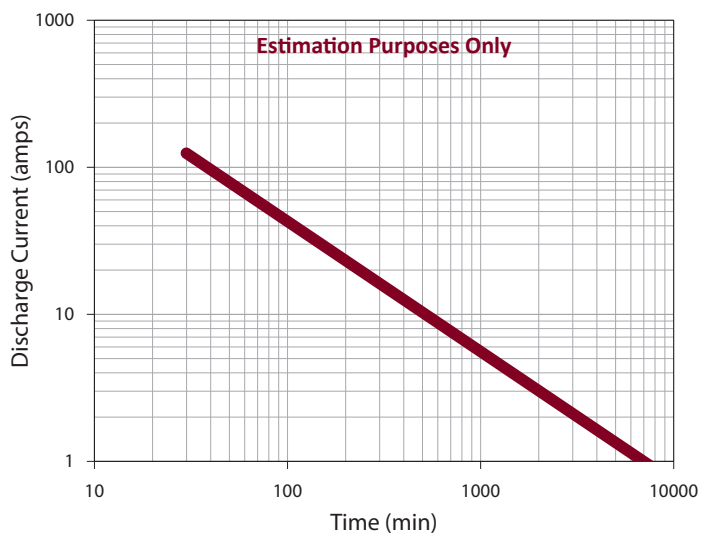
## TERMINAL CONFIGURATIONS

6	DT	Automotive Post & Stud Terminal
		Terminal Height Inches (mm) 0.79 (20)  Torque Values in-lb (Nm) Stud: 95 – 105 (11 – 12) AP: 50 – 70 (6 – 8)  Bolt 5/16"
11	ST	Stud Terminal
		Terminal Height Inches (mm) 0.64 (16)  Torque Values in-lb (Nm) 120 – 180 (14-20)  Bolt 3/8"

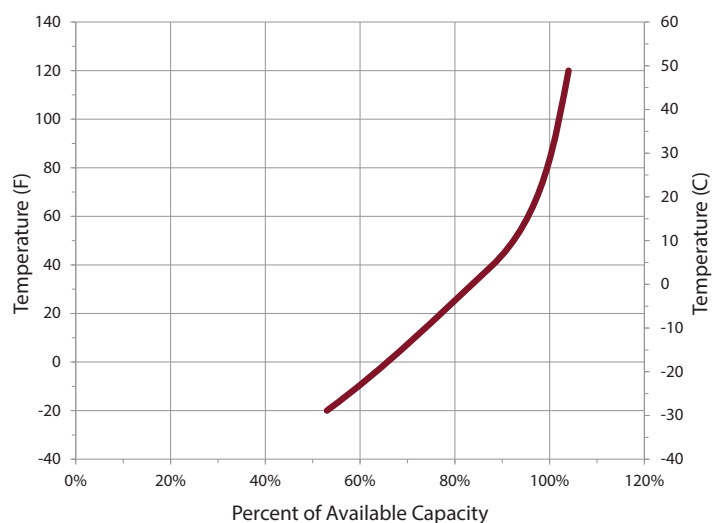
## BATTERY DIMENSIONS (shown with ST)



## 31-AGM PERFORMANCE



## PERCENT CAPACITY VS. TEMPERATURE



Trojan batteries are available worldwide through Trojan's Master Distributor Network. We offer outstanding technical support, provided by full-time application engineers.

**For a Trojan Master Distributor near you, test  
call 800.423.6569 or + 1.562.236.3000 or visit [www.trojanbattery.com](http://www.trojanbattery.com)**

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