

**MODEL:** OverDrive™ AGM 31  
**VOLTAGE:** 12  
**DIMENSIONS:** Inches (mm)  
**BATTERY:** VRLA AGM  
**COLOR:** Maroon (case/cover)  
**MATERIAL:** Polypropylene  
**WATERING SYSTEM:** N/A



## PRODUCT SPECIFICATIONS

| BCI GROUP SIZE                     | TYPE              | CAPACITY <sup>A</sup> Minutes @25 Amps | CRANKING Performance     |                         | CAPACITY <sup>B</sup> Amp-Hours (AH) |            |            |             | ENERGY (kWh) 100-Hr Rate | TERMINAL Type | DIMENSIONS <sup>C</sup> Inches (mm) |            |                     | WEIGHT lbs. (kg) |
|------------------------------------|-------------------|--|--------------------------|-------------------------|--------------------------------------|------------|------------|-------------|--------------------------|---------------|-------------------------------------|------------|---------------------|------------------|
|                                    |                   |  | 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 |                          |               | Length                              | Width      | Height <sup>F</sup> |                  |
| <b>12 VOLT CYCLING AGM BATTERY</b> |                   |  |                          |                         |                                      |            |            |             |                          |               |                                     |            |                     |                  |
| 31                                 | OverDrive AGM 31™ | 180                                    | 730                      | 875                     | 84                                   | 93         | 102        | 112         | 1.34                     | 11            | 13.42 (341)                         | 6.81 (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.
- 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.  
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

|   |
|---|
| 028 VPC for every 10°F (5.55°C) above or below 77°F (25°C)                                      |
| add .028 VPC for every 10°F (5.55°C) below 77°F and subtract .028 VPC for every 10°C above 77°F |

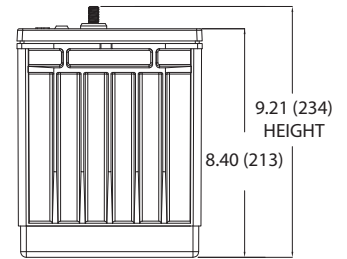
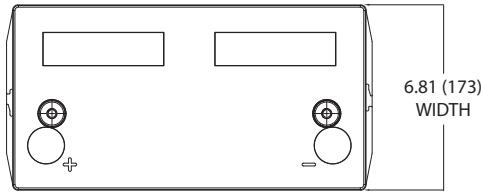
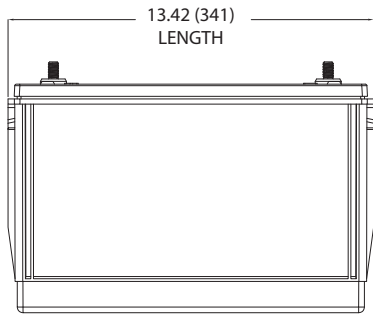
## TERMINAL CONFIGURATIONS

| 11  | ST                          | Stud Terminal     |
|---|-----------------------------|-------------------|
|  | Terminal Height Inches (mm) | .64 (16)          |
|   | Torque Values in-lb (Nm)    | 120 - 180 (14-20) |
|   | Stud Size                   | 3/8"              |

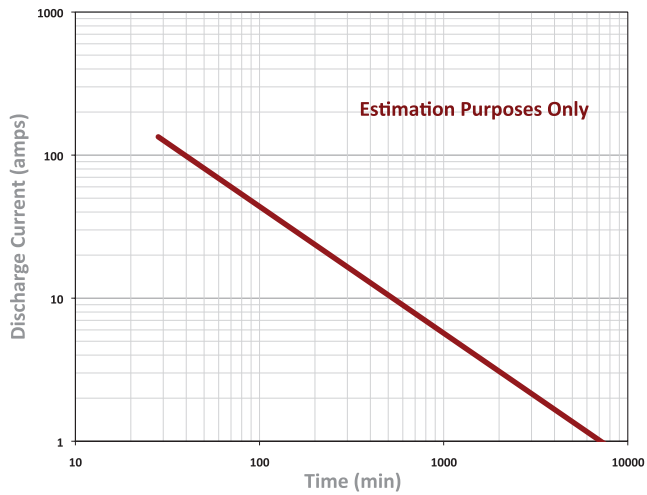
## OPERATIONAL DATA

| 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. |

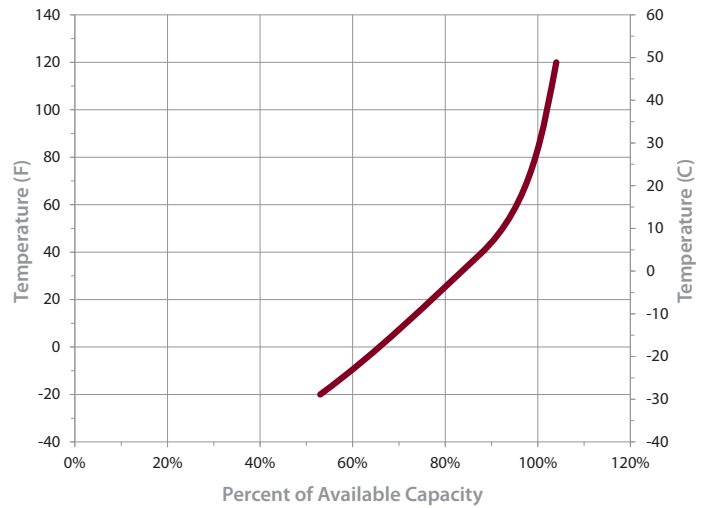
## BATTERY DIMENSIONS (shown with ST)



## TROJAN OVERDRIVE™ AGM 31 PERFORMANCE



## PERCENT CAPACITY VS. TEMPERATURE



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Trojan's battery testing procedures adhere to BCI-05 (Rev Oct 09) and IEC 61427 test standards.



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

[trojanbattery.com](http://trojanbattery.com)

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