

MODEL T-1275 with Master Vent  
 VOLTAGE 12  
 MATERIAL Polypropylene  
 DIMENSIONS Inches (mm)  
 BATTERY Deep-Cycle Flooded/Wet Lead-Acid Battery  
 COLOR Maroon  
 WATERING HydroLink™ Watering System



**12V**

**PRODUCT + PHYSICAL SPECIFICATIONS**

| BCI Group Size | Type   | Voltage | Cell(s) | Terminal Type <sup>6</sup> | Dimensions <sup>c</sup> Inches (mm) |            |                     | Weight Lbs. (kg) |
|----------------|--------|---------|---------|----------------------------|-------------------------------------|------------|---------------------|------------------|
|                |        |         |         |                            | Length                              | Width      | Height <sup>f</sup> |                  |
| GC12           | T-1275 | 12      | 6       | 1, 2                       | 12.96 (329)                         | 7.13 (181) | 11.13 (283)         | 85 (39)          |

**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 | @ 75 Amps | 5-Hr                                 | 10-Hr | 20-Hr | 100-Hr | 100-Hr       | —                        | —                            |
| —                                 | —                              | 280                           | 102       | 70        | 120                                  | 134   | 150   | 166    | 1.99         | —                        | —                            |

**CHARGING INSTRUCTIONS**

| System Voltage  | Charger Voltage Settings (at 77°F/25°C) |       |       |       |
|-----------------|---|-------|-------|-------|
|                 | 12V                                     | 24V   | 36V   | 48V   |
| Bulk Charge     | 14.82                                   | 29.64 | 44.46 | 59.28 |
| Float Charge    | 13.50                                   | 27.00 | 40.50 | 54.00 |
| Equalize Charge | 16.20                                   | 32.40 | 48.60 | 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<br>0.0028 volt per cell for every 1°F below 77°F | 0.005 volt per cell for every 1°C above 25°C<br>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 Charge | Specific Gravity | Cell  | 12 Volt |
|-------------------|------------------|-------|---------|
| 100               | 1.277            | 2.122 | 12.73   |
| 90                | 1.258            | 2.103 | 12.62   |
| 80                | 1.238            | 2.083 | 12.50   |
| 70                | 1.217            | 2.062 | 12.37   |
| 60                | 1.195            | 2.040 | 12.24   |
| 50                | 1.172            | 2.017 | 12.10   |
| 40                | 1.148            | 1.993 | 11.96   |
| 30                | 1.124            | 1.969 | 11.81   |
| 20                | 1.098            | 1.943 | 11.66   |
| 10                | 1.073            | 1.918 | 11.51   |




Designed in compliance with applicable BCI, DIN, BS and IEC standards.  
 Tested in compliance to BCI and IEC standards.

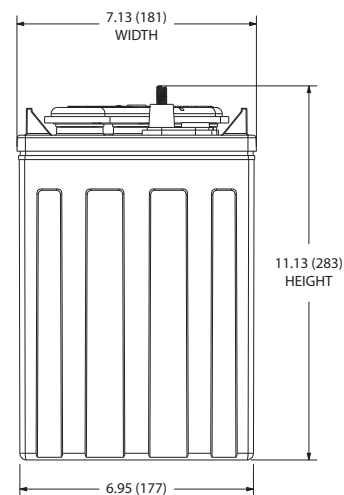
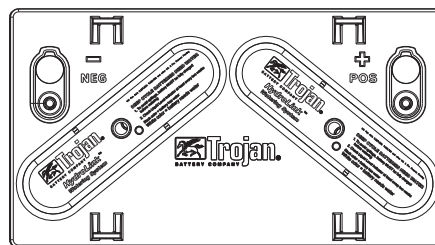
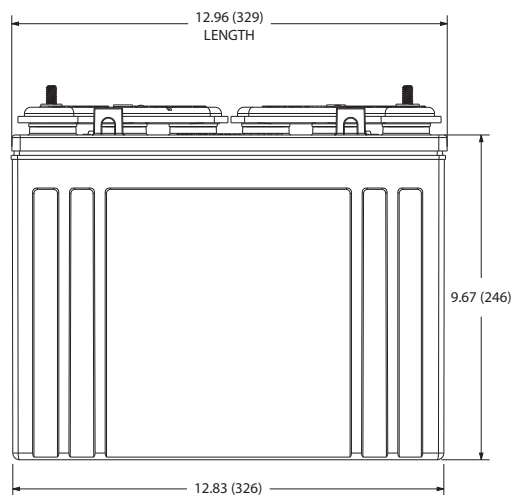


## TERMINAL CONFIGURATIONS<sup>6</sup>

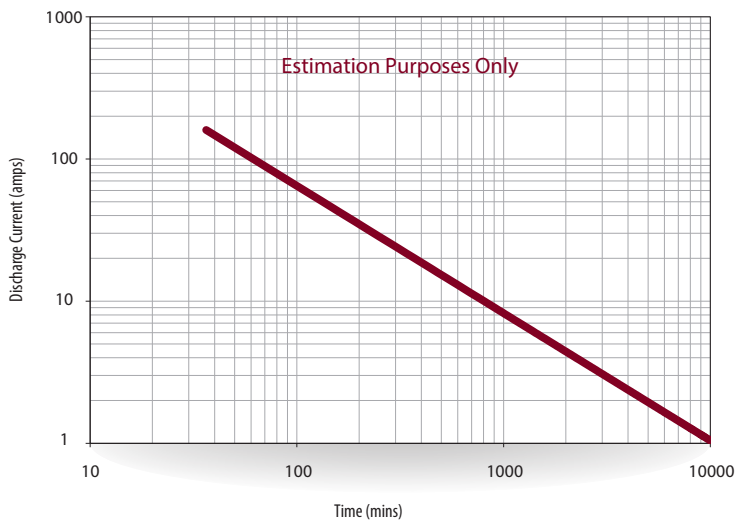
| 1   | ELPT | Embedded Low Profile Terminal |
|---|------|-------------------------------|
|  |      |                               |
| <b>Terminal Height Inches (mm)</b><br>1.22 (31)                                   |      |                               |
| <b>Torque Values in-lb (Nm)</b><br>95 – 105 (11 – 12)                             |      |                               |
| <b>Bolt</b><br>5/16"  |      |                               |

| 2  | EHPT | Embedded High Profile Terminal |
|--|------|--------------------------------|
|  |      |                                |
| <b>Terminal Height Inches (mm)</b><br>1.50 (38)                                    |      |                                |
| <b>Torque Values in-lb (Nm)</b><br>95 – 105 (11 – 12)                              |      |                                |
| <b>Bolt</b><br>5/16"   |      |                                |

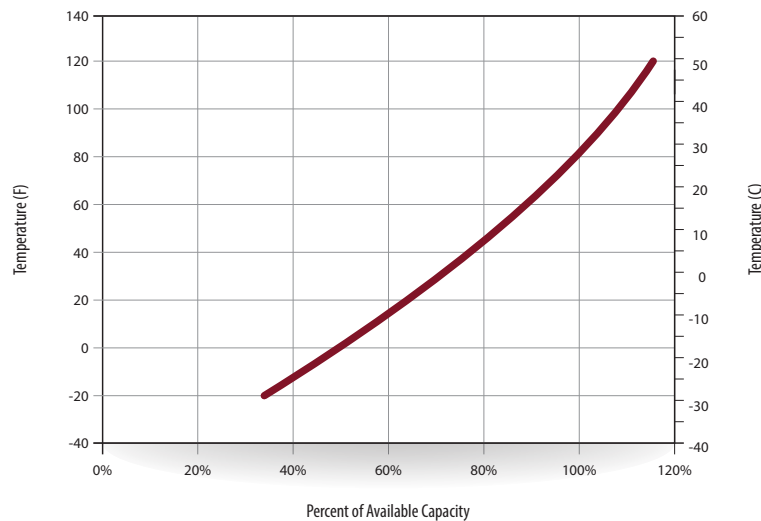
## BATTERY DIMENSIONS (shown with EHPT)



## TROJAN T-1275 PERFORMANCE



## PERCENT CAPACITY VS. TEMPERATURE



- 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) and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.
- C. Dimensions may vary depending on type of handle or terminal. Batteries should be mounted with 0.5 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 (-18°C) 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 (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.
- F. Height 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.