



# SIGNATURE LINE FLOODED T-105

1200 CYCLES @ 50 % DOD

## • TRULY DEEP CYCLE – MAXGUARD T2

- BCI Group GC2, 6V
- Reserve Capacity [Ah@20hr rate]: 225
- Reserve Capacity [Ah@100hr rate]: 230
- Energy [kWh]: 1.38
- Weight: 68 lbs.
- Length: 10.30 in (262 mm)
- Width: 7.06 in (179 mm)
- Height: 10.73 in (273 mm)
- ELPT / EHPT / EAPT / EUPT
- BAYONET / MASTERVENT / PLUS / HYDROLINK



**The Signature Line of deep-cycle flooded batteries is the flagship of Trojan's product portfolio.**

Engineered to provide rugged durability and outstanding performance, Trojan's Signature is perfectly suited for use in renewable energy systems where lowest life-cycle cost is the key consideration. An all-around power house, the Signature Line features Trojan's historically-proven engineering with T2 Technology™, an advanced battery technology for maximum sustained performance, longer life and increased total energy.

MODEL T105  
 VOLTAGE 6V  
 CAPACITY 225Ah @ 20Hr  
 MATERIAL Polypropylene  
 BATTERY TYPE Deep Cycle Flooded / Wet Lead Acid Battery  
 IEC 61427

**6V**
**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> |                  |
| GC2            | T-105 | 6       | 3       | 1, 2, 3, 4                 | 10.30 (262)                         | 7.13 (181) | 11.15 (283)         | 62 (28)          |

**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                     | @ 75 Amps | 5-Hr                                 | 10-Hr | 20-Hr | 100-Hr | 100-Hr       | —                        | —                            |
| —                                 | —                              | 447                           | 115       | 185                                  | 207   | 225   | 250    | 1.50         |                          |                              |

**CHARGING INSTRUCTIONS**

## Charger Voltage Settings (at 77°F/25°C)

| System Voltage         | 6V   | 12V   | 24V   | 36V   | 48V   |
|------------------------|------|-------|-------|-------|-------|
| <b>Bulk Charge</b>     | 7.41 | 14.82 | 29.64 | 44.46 | 59.28 |
| <b>Float Charge</b>    | 6.75 | 13.50 | 27.00 | 40.50 | 54.00 |
| <b>Equalize Charge</b> | 8.10 | 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  | 0.005 volt per cell for every 1°C above 25°C  |
| 0.0028 volt per cell for every 1°F below 77°F | 0.0028 volt per cell for every 1°F above 77°F |

**OPERATIONAL DATA**

| Operating Temperature                                                                                            | Self Discharge                                                     |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| -4°F to 122°F (-20°C to 50°C)<br>At temperatures below 32°F (0°C)<br>maintain a state of charge greater than 60% | Less than 3% per month depending on storage temperature conditions |

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

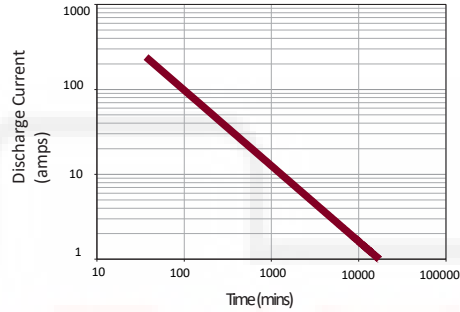
| Percentage Charge | Cell | 6 Volt |
|-------------------|------|--------|
| 100               | 2.14 | 6.42   |
| 75                | 2.09 | 6.27   |
| 50                | 2.04 | 6.12   |
| 25                | 1.99 | 5.97   |
| 0                 | 1.94 | 5.82   |



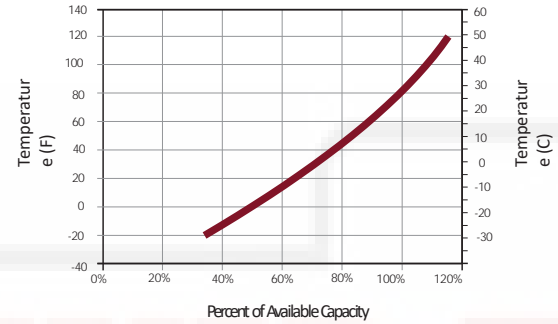
Designed in compliance with applicable BCI, DIN, BS and IEC standards. Tested in compliance to BCI and IEC standards.



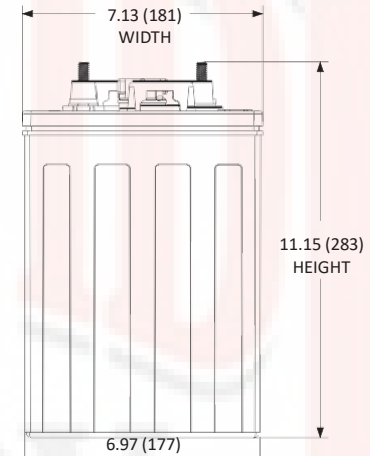
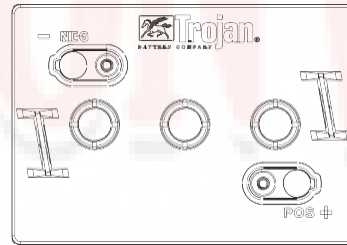
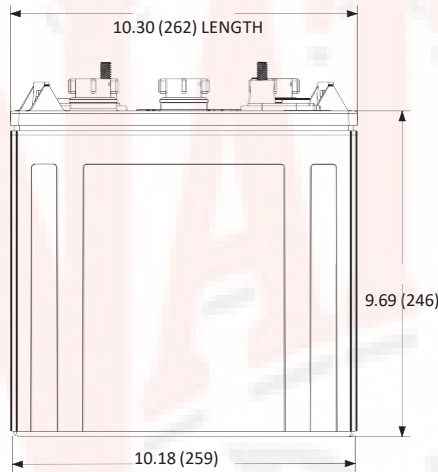
# TROJAN T-105 PERFORMANCE



# PERCENT CAPACITY VS. TEMPERATURE



## BATTERY DIMENSIONS (shown with EHPT)



## TERMINAL CONFIGURATIONS

| 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"                            |                                                       |

| 3 | EAPT                                            | EMBEDDED AUTOMOTIVE POST TERMINAL                      |
|---|-------------------------------------------------|--------------------------------------------------------|
|   | <b>Terminal Height Inches (mm)</b><br>0.95 (24) | <b>Torque Values in-lb (Nm)</b><br>50 – 70 (5.6 – 7.9) |
| 4 | EUPT                                            | EMBEDDED UNIVERSAL 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"                            |                                                        |

A. The amount of amp-hours (Ah) a battery can deliver when discharged at a constant rate at 86°F (30°C) for all rates and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.  
 B. Dimensions may vary depending on type of handle or terminal. Batteries should be mounted with 0.5 inches (12.7 mm) spacing minimum.

C. Height taken from bottom of the battery to the highest point on the battery. Heights may vary depending on type of terminal.  
 D. Terminal images are representative only.  
 E. A boost charge should be performed every 6 months when batteries are in storage.  
 F. Weight may vary.