

**MODEL:** T-105 with Bayonet Cap  
**DIMENSIONS:** inches (mm)  
**BATTERY:** Flooded/wet lead-acid battery  
**COLOR:** Maroon (case/cover)  
**MATERIAL:** Polypropylene



### PRODUCT SPECIFICATIONS

| BCI GROUP SIZE                                       | TYPE  | CAPACITY <sup>A</sup> Amp-Hours (AH) |           |            |            |            |            |             |             | ENERGY (kWh) | VOLTAGE | TERMINAL Type <sup>D**</sup> | DIMENSIONS <sup>B</sup> Inches (mm) |               |                     | WEIGHT lbs. (kg) |
|--|-------|--------------------------------------|-----------|------------|------------|------------|------------|-------------|-------------|--------------|---------|------------------------------|-------------------------------------|---------------|---------------------|------------------|
|  |       | 2-Hr Rate                            | 5-Hr Rate | 10-Hr Rate | 20-Hr Rate | 48-Hr Rate | 72-Hr Rate | 100-Hr Rate | 100-Hr Rate |              |         |                              | Length                              | Width         | Height <sup>C</sup> |                  |
| <b>SIGNATURE LINE - DEEP-CYCLE FLOODED BATTERIES</b> |       |                                      |           |            |            |            |            |             |             |              |         |                              |                                     |               |                     |                  |
| GC2  | T-105 | 146                                  | 185       | 207        | 225        | 240        | 245        | 250         | 1.50        | 6VOLT        | 5       | 10-1/4 (260)                 | 7-1/8 (181)                         | 11-1/16 (281) | 62 (28)             |                  |

### CHARGING INSTRUCTIONS

| CHARGER VOLTAGE SETTINGS (AT 77°F/25°C) |                  |
|---|------------------|
|   | Voltage per cell |
| Absorption charge                       | 2.35-2.45        |
| Float charge                            | 2.20             |
| Equalize charge                         | 2.58             |

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.

### OPERATIONAL DATA

| Operating Temperature   | Specific Gravity                                      |
|---|---|
| -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%. | The specific gravity at 100% state-of-charge is 1.280 |

### CHARGING TEMPERATURE COMPENSATION

To the Voltage Reading – Subtract 0.005 volt per cell (VPC) for every 1°C above 25°C or add 0.005 volt per cell for every 1°C below 25°C.

### EXPECTED LIFE VS. TEMPERATURE

Chemical reactions internal to the battery are driven by voltage and temperature. The higher the battery temperature, the faster chemical reactions will occur. While higher temperatures can provide improved discharge performance the increased rate of chemical reactions will result in a corresponding loss of battery life. As a rule of thumb, for every 10°C increase in temperature the reaction rate doubles. Thus, a month of operation at 35°C is equivalent in battery life to two months at 25°C. Heat is an enemy of all lead acid batteries, FLA, AGM and gel alike and even small increases in temperature will have a major influence on battery life.

A. The amount of amp-hours (AH) a battery can deliver when discharged at a constant rate at 77°F (25°C) and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.

B. Dimensions are based on nominal size. Dimensions may vary depending on type of handle or terminal.


C. Dimensions 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.

Trojan's Battery testing procedures adhere to both BCI and IEC test standards.

\*\* Additional Terminals Available

### TERMINAL CONFIGURATIONS

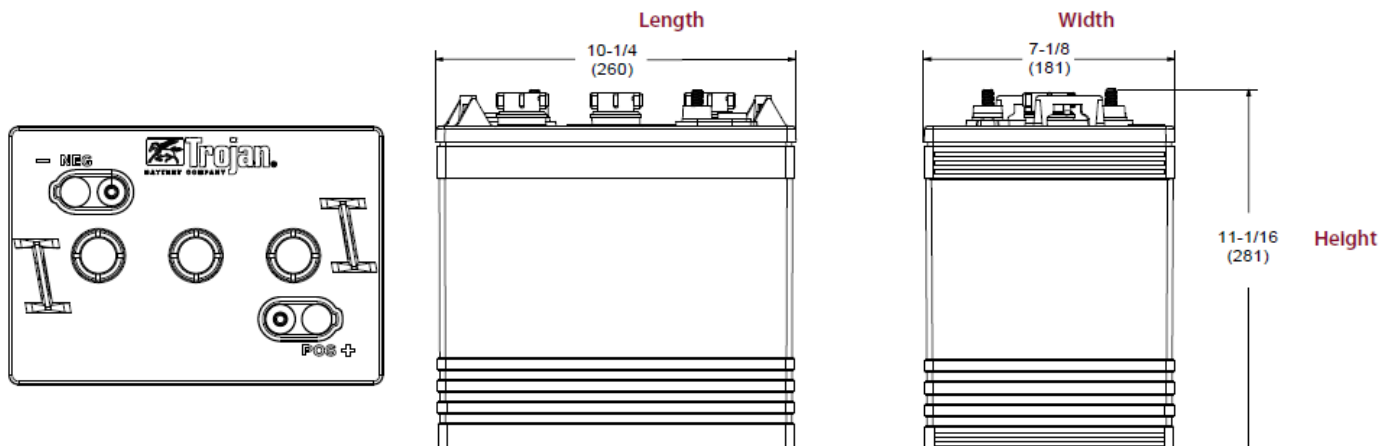
| 5   | LT | L-Terminal   |
|---|----|--|
|  |    | <i>Terminal Height Inches (mm)</i><br>1-3/4 (43)       |
|   |    | <i>Torque Values In-lb (Nm)</i><br>100 – 120 (11 – 14) |
|   |    | <i>Through-hole Diameter (mm)</i><br>3/8 (10)          |
|   |    |  |

# T-105 DATA SHEET

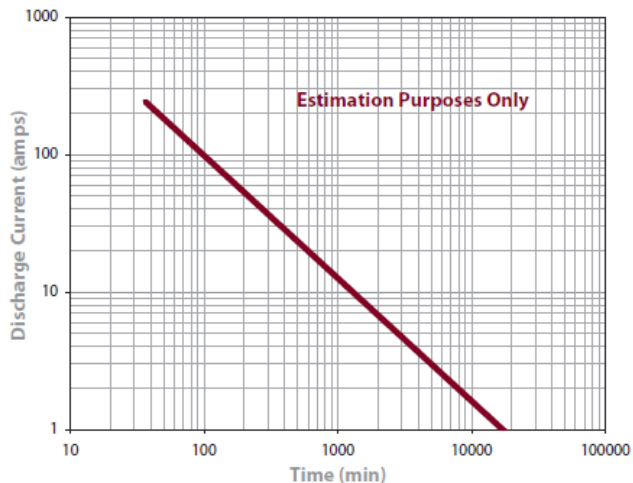
for Renewable Energy and Backup Power Applications

SIGNATURE LINE

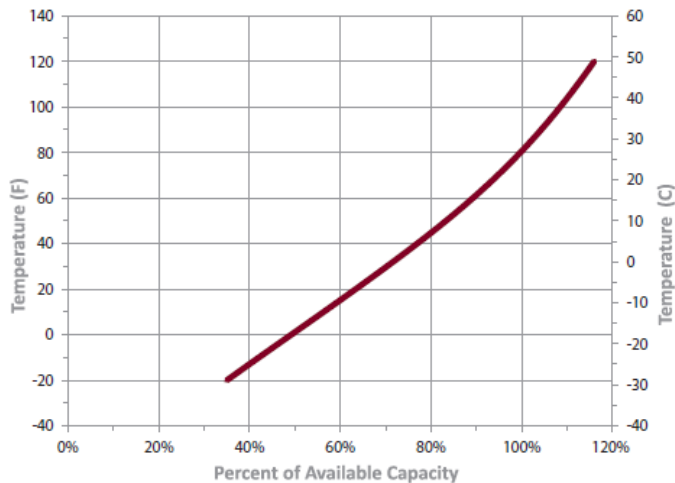
## BATTERY DIMENSIONS (shown with ELPT)



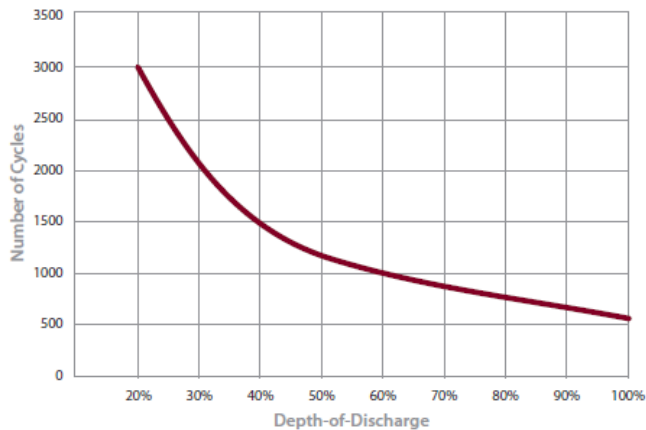
## TROJAN T-105 PERFORMANCE



## PERCENT CAPACITY VS. TEMPERATURE



## TYPICAL CYCLE LIFE IN A STATIONARY APPLICATION



Distributeur S.C. Soft Media S.R.L. Tel: 0723326382 / 0723574419 Email: comenzi@baterii.biz