

MODEL **27-Gel**
 VOLTAGE **12**
 CAPACITY **91Ah @ 20Hr**
 MATERIAL **Polypropylene**
 BATTERY **VRLA GEL / Non-Spillable / Maintenance-Free**
 COLOR **Maroon (case) Grey (cover)**
 WATERING **No Watering Required**



12 VOLT

PHYSICAL SPECIFICATIONS

| BCI | MODEL NAME | TERMINAL TYPE [£] | DIMENSIONS [¢] INCHES (mm) | | | WEIGHT [£] LBS. (kg) | INSTALLATION ORIENTATION |
|-----|------------|----------------------------|-------------------------------------|------------|---------------------|-------------------------------|--------------------------|
| | | | LENGTH | WIDTH | HEIGHT [¤] | | |
| 27 | 27-GEL | 7 | | | | 62 (28) | Horizontal and Vertical |
| | | | 12.73 (323) | 6.38 (162) | 9.26 (235) | | |

ELECTRICAL SPECIFICATIONS

| VOLTAGE | CAPACITY [^] MINUTES | CAPACITY [^] AMP-HOURS (Ah) | | | | | ENERGY (kWh) | INTERNAL RESISTANCE (mΩ) | SHORT CIRCUIT CURRENT (amps) |
|---------|-------------------------------|--------------------------------------|-------|-------|--------|--------|--------------|--------------------------|------------------------------|
| | | 5-Hr | 10-Hr | 20-Hr | 100-Hr | 100-Hr | | | |
| 12 | @ 25 Amps | 76 | 84 | 91 | 100 | 1.20 | - | - | |
| | 179 | | | | | | | | |

CHARGING INSTRUCTIONS

| CHARGER VOLTAGE SETTINGS (AT 77°F/25°C) | | | | |
|---|------------------------|-------|-------|-------|
| SYSTEM VOLTAGE | 12V | 24V | 36V | 48V |
| Maximum Charge Current (A) | 13% of C ₂₀ | | | |
| Absorption Voltage (2.40 V/cell) | 14.40 | 28.80 | 43.20 | 57.60 |
| Float Voltage (2.25 V/cell) | 13.50 | 27.00 | 40.50 | 54.00 |

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 |
|---|---|
| 0.003 volt per cell for every 1°C below 25°C 0.0017 volt per cell for every 1°F below 77°F | 0.003 volt per cell for every 1°C above 25°C 0.0017 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%. | Less than 3% per month depending on storage temperature conditions |

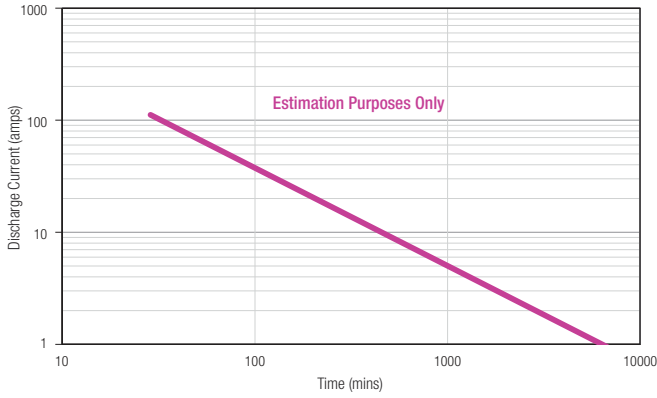
RECYCLE RESPONSIBLY



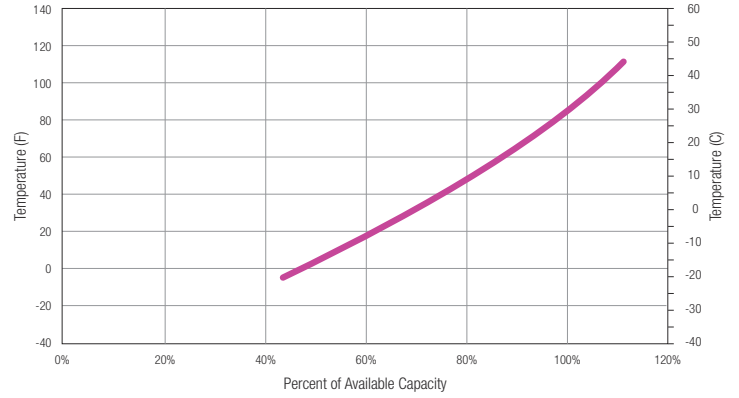
STATE OF CHARGE MEASURE OF OPEN-CIRCUIT VOLTAGE

| PERCENTAGE CHARGE | CELL | 12 VOLT |
|-------------------|------|---------|
| 100 | 2.14 | 12.84 |
| 75 | 2.11 | 12.66 |
| 50 | 2.06 | 12.36 |
| 25 | 2.00 | 12.00 |
| 0 | 1.97 | 11.82 |

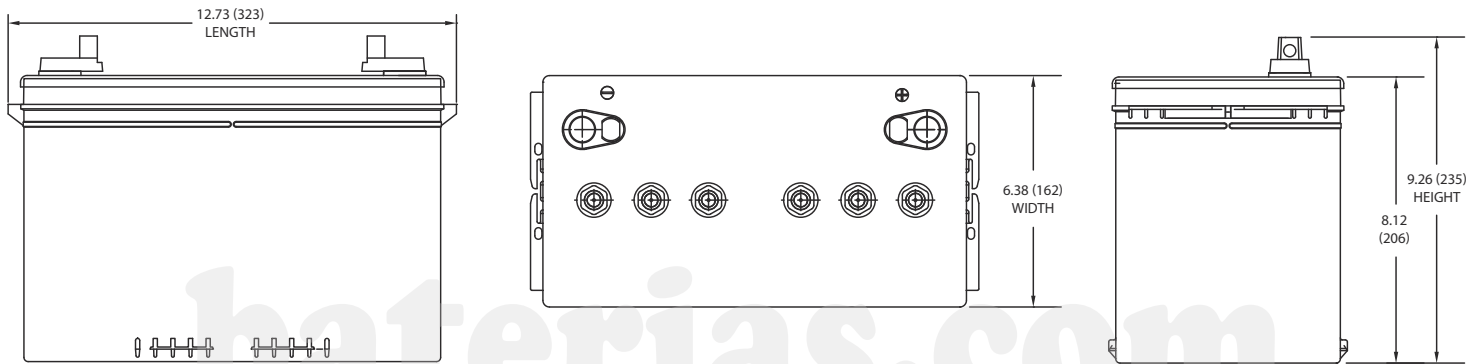
TROJAN 27-GEL PERFORMANCE




PERCENT CAPACITY VS. TEMPERATURE



BATTERY DIMENSIONS (shown with UT)



TERMINAL CONFIGURATIONS^E

| 7 | UT | UNIVERSAL TERMINAL |
|---|----|---|
|  | | <p>Terminal Height Inches (mm) 1.10 (28)</p> <p>Torque Values in-lb (Nm) 95 – 105 (11 – 12)</p> <p>Bolt 5/16" – 18</p> |

- 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 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. Dimensions taken from bottom of the battery to the highest point on the battery. Heights may vary depending on type of terminal.
- E. Terminal images are representative only.
- F. Weight may vary.



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



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