

MODEL **SAES 06 315**
 VOLTAGE **6**
 CAPACITY **301Ah @ 20Hr**
 MATERIAL **Polypropylene**
 BATTERY **VRLA AGM / Non-Spillable / Maintenance-Free**
 COLOR **Maroon**
 WATERING **No Watering Required**
 IEC 61427 **8+ Years Life**



6 VOLT

PHYSICAL SPECIFICATIONS

| MODEL NAME | TERMINAL TYPE | DIMENSIONS ^B INCHES (mm) | | | WEIGHT ^F LBS. (kg) | HANDLES | INSTALLATION ORIENTATION |
|-------------|---------------|-------------------------------------|------------|---------------------|-------------------------------|--------------|--------------------------|
| | | LENGTH | WIDTH | HEIGHT ^C | | | |
| SAES 06 315 | M8/LT | | | | 101 (45) | Braided Rope | Horizontal and Vertical |
| | | 11.66 (296) | 6.94 (176) | 13.99 (355) | | | |

ELECTRICAL SPECIFICATIONS

| VOLTAGE | CAPACITY ^A AMP-HOURS (Ah) | | | | | ENERGY (kWh) | INTERNAL RESISTANCE (mΩ) | SHORT CIRCUIT CURRENT (amps) |
|---------|--------------------------------------|-------|-------|-------|--------|--------------|--------------------------|------------------------------|
| | 10-Hr | 20-Hr | 48-Hr | 72-Hr | 100-Hr | | | |
| 6 | | | | | | 20-Hr | 1.7 | 3600 |
| | 279 | 301 | 310 | 313 | 316 | 1.24 | | |

CHARGING INSTRUCTIONS

| CHARGER VOLTAGE SETTINGS (AT 77°F/25°C) | | | | | |
|---|------------------------|-------|-------|-------|-------|
| SYSTEM VOLTAGE | 6V | 12V | 24V | 36V | 48V |
| Maximum Charge Current (A) | 50% of C ₂₀ | | | | |
| Absorption Voltage (2.40 V/cell) | 7.20 | 14.40 | 28.80 | 43.20 | 57.60 |
| Float Voltage (2.25 V/cell) | 6.75 | 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 |
|---|---|
| 0.005 volt per cell for every 1°C below 25°C 0.0028 volt per cell for every 1°F below 77°F | 0.005 volt per cell for every 1°C above 25°C 0.0028 volt per cell for every 1°F above 77°F |

OPERATIONAL DATA

| OPERATING TEMPERATURE | SELF DISCHARGE |
|--|---|
| -40°F to 140°F (-40°C to +60°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. |

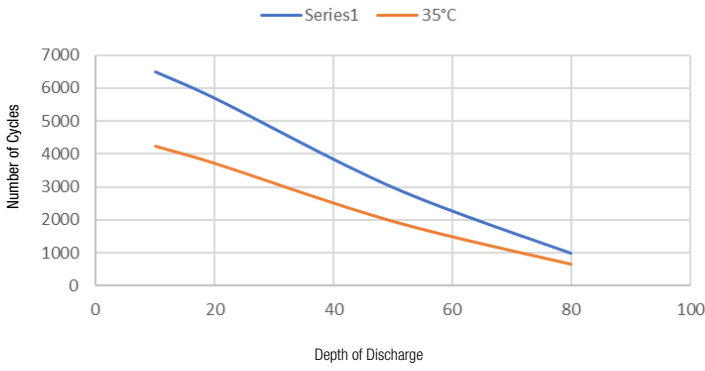
RECYCLE RESPONSIBLY



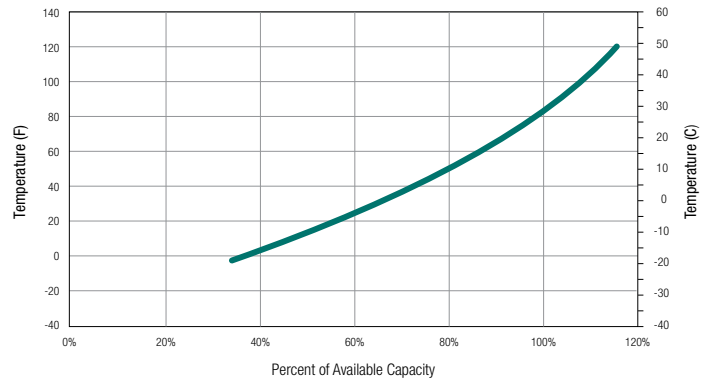
STATE OF CHARGE MEASURE OF OPEN-CIRCUIT VOLTAGE

| PERCENTAGE CHARGE | CELL | 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 |

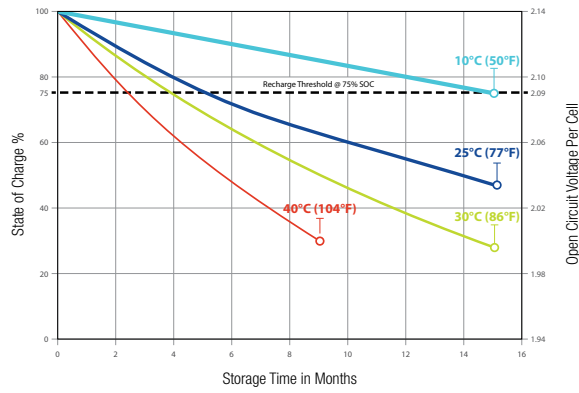
SOLAR CYCLE VS DEPTH OF DISCHARGE



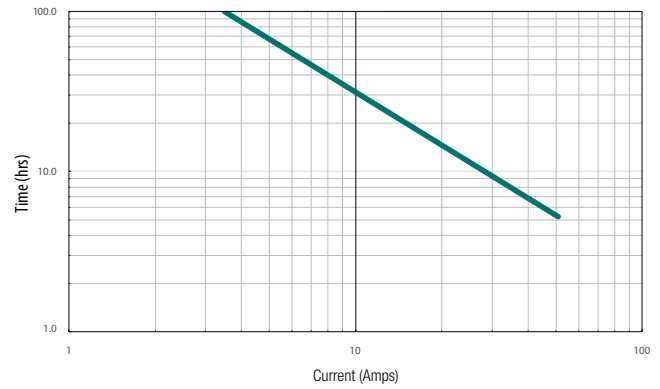
PERCENT CAPACITY VS. TEMPERATURE



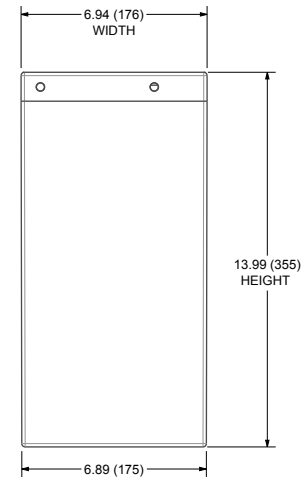
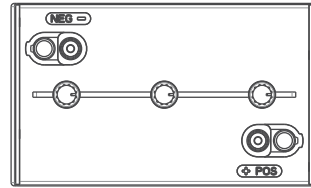
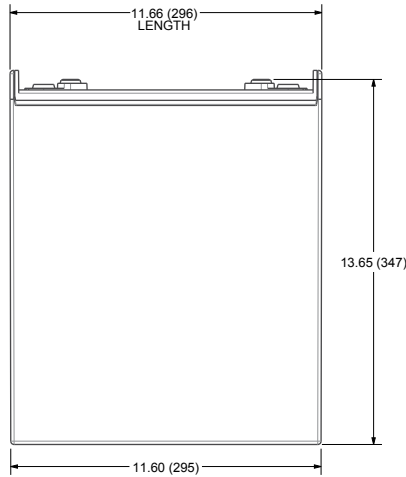
SELF DISCHARGE VS. TIME^E



TROJAN SAES 06 315 PERFORMANCE



BATTERY DIMENSIONS (shown with M8, height is 15.15 (385) with LT)



TERMINAL TYPE^D

| 15 | M8 | M8 | M8 WITH LT ADAPTER (ADAPTER PROVIDED BUT NOT INSTALLED) |
|----|---|--|---|
| | Battery Height with Terminal in Inches (mm) 10.57 (268) | Torque Values in-lb (Nm) Bolt: 85 – 90 (10 – 11) | Battery Height with Terminal in Inches (mm) 15.15 (385) Torque Values in-lb (Nm) Connection to M8: 85 – 90 (10 – 11) Connection to LT: 65 – 75 (7.5 – 8.5) Bolt Size M8 x 1.25 |

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. Batteries in storage should be charged when they decline to 75% State of Charge (SOC).
F. Weight may vary.



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

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