

MODEL **SAGM 12 135**
 VOLTAGE **12**
 CAPACITY **135Ah @ 20Hr**
 MATERIAL **Polypropylene**
 BATTERY **VRLA AGM / Non-Spillable / Maintenance-Free**
 COLOR **Maroon**
 WATERING **No Watering Required**
 IEC 61427 **8+ Years Life**



12 VOLT

PHYSICAL SPECIFICATIONS

| MODEL NAME | TERMINAL TYPE ^D | DIMENSIONS ^B INCHES (mm) | | | WEIGHT ^F LBS. (kg) | HANDLES | INSTALLATION ORIENTATION |
|-------------|----------------------------|-------------------------------------|------------|---------------------|-------------------------------|----------|--------------------------|
| | | LENGTH | WIDTH | HEIGHT ^C | | | |
| SAGM 12 135 | M8/LT | | | | 83 (38) | Embedded | Horizontal and Vertical |
| | | 12.96 (329) | 7.06 (179) | 10.96 (278) | | | |

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 | | | |
| 12 | | | | | | 20-Hr | 4.3 | 2920 |
| | 131 | 135 | 136 | 137 | 137 | 1.62 | | |

CHARGING INSTRUCTIONS

| CHARGER VOLTAGE SETTINGS (AT 77°F/25°C) | | | | |
|---|------------------------|-------|-------|-------|
| SYSTEM VOLTAGE | 12V | 24V | 36V | 48V |
| Maximum Charge Current (A) | 20% 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 |
|---|---|
| 0.005 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 |
|---|---|
| -4°F to 122°F (-20°C to +50°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. |

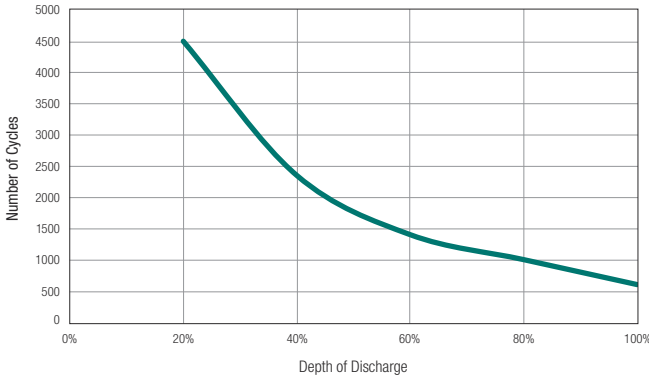
RECYCLE RESPONSIBLY



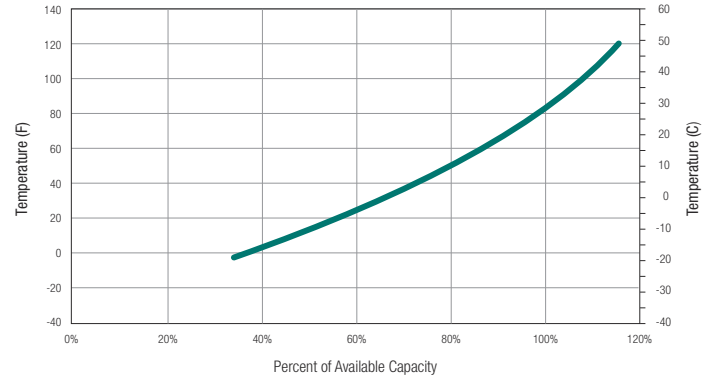
STATE OF CHARGE MEASURE OF OPEN-CIRCUIT VOLTAGE

| PERCENTAGE CHARGE | CELL | 12 VOLT |
|-------------------|------|---------|
| 100 | 2.14 | 12.84 |
| 75 | 2.09 | 12.54 |
| 50 | 2.04 | 12.24 |
| 25 | 1.99 | 11.94 |
| 0 | 1.94 | 11.64 |

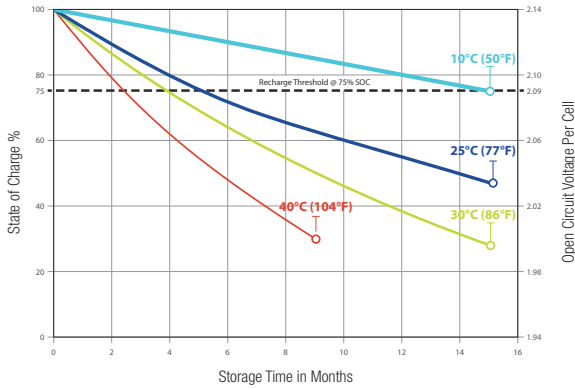
SOLAR CYCLE-LIFE



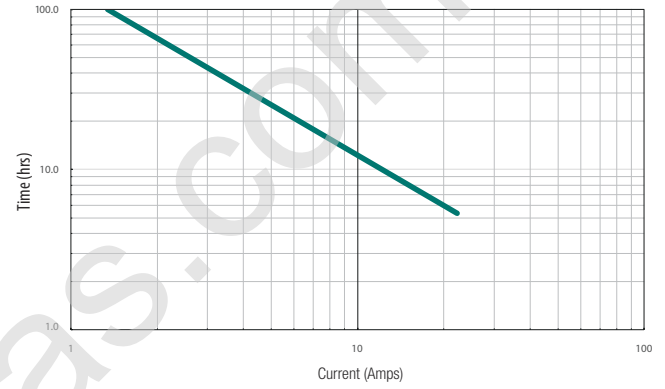
PERCENT CAPACITY VS. TEMPERATURE



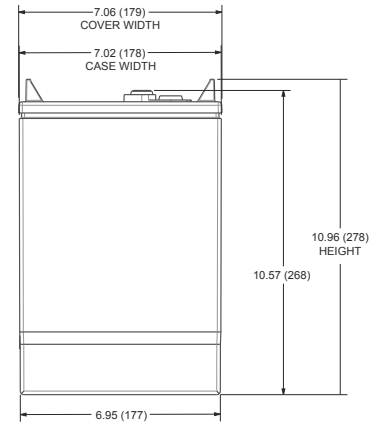
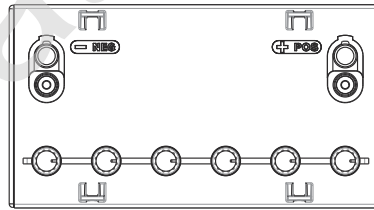
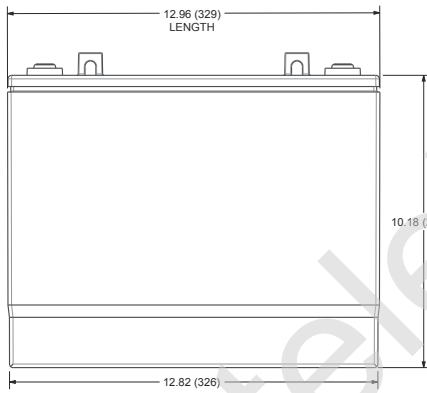
SELF DISCHARGE VS. TIME^E



TROJAN SAGM 12 135 PERFORMANCE



BATTERY DIMENSIONS (shown with M8, height is 12.07 (307) with LT)



TERMINAL CONFIGURATIONS^D

| 15 | M8 | M8 |
|----|---|--|
| | Battery Height with Terminal in Inches (mm) 10.57 (268) | Torque Values in-lb (Nm) Bolt: 85 – 90 (10 – 11) |

| 15 | M8 | M8 WITH LT ADAPTER (ADAPTER PROVIDED BUT NOT INSTALLED) |
|----|---|---|
| | Battery Height with Terminal in Inches (mm) 12.07 (307) | 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. A boost charge should be performed every 6 months when batteries are in storage.
- F. Weight may vary.



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

800.423.6569 / +1.562.236.3000 / trojanbattery.com

SAGM_12_135_DS_021319



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