

MODEL **SAGM 08 165**  
 VOLTAGE **8**  
 CAPACITY **165Ah @ 20Hr**  
 MATERIAL **Polypropylene**  
 BATTERY **VRLA AGM / Non-Spillable / Maintenance-Free**  
 COLOR **Maroon**  
 WATERING **No Watering Required**  
 IEC 61427 **8+ Years Life**



## 8 VOLT

### PHYSICAL SPECIFICATIONS

MODEL NAME	TERMINAL TYPE <sup>D</sup>	DIMENSIONS <sup>B</sup> INCHES (mm)			WEIGHT <sup>F</sup> LBS. (kg)	HANDLES	INSTALLATION ORIENTATION
		LENGTH	WIDTH	HEIGHT <sup>C</sup>			
SAGM 08 165	M8/LT	10.30 (262)	7.06 (179)	10.73 (273)	70 (32)	Embedded	Horizontal and Vertical

### ELECTRICAL SPECIFICATIONS

VOLTAGE	CAPACITY <sup>A</sup> AMP-HOURS (Ah)					ENERGY (kWh)	INTERNAL RESISTANCE (mΩ)	SHORT CIRCUIT CURRENT (amps)
8	10-Hr	20-Hr	48-Hr	72-Hr	100-Hr	20-Hr	3.0	2780
	145	165	168	171	174	1.32		

### CHARGING INSTRUCTIONS

CHARGER VOLTAGE SETTINGS (AT 77°F/25°C)			
SYSTEM VOLTAGE	8V	24V	48V
Maximum Charge Current (A)	20% of C <sub>20</sub>		
Absorption Voltage (2.40 V/cell)	9.60	28.80	57.60
Float Voltage (2.25 V/cell)	9.00	27.00	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.			

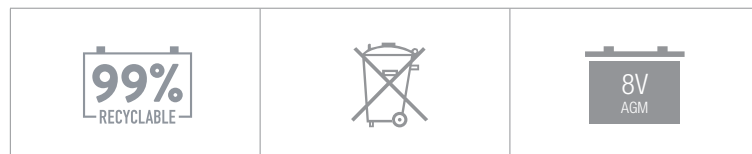
### CHARGING TEMPERATURE COMPENSATION

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.

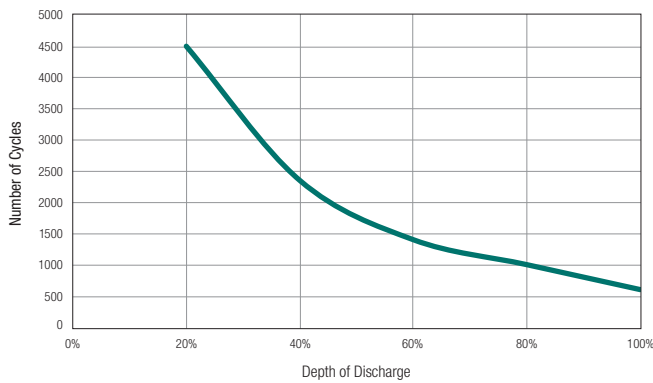
### RECYCLE RESPONSIBLY



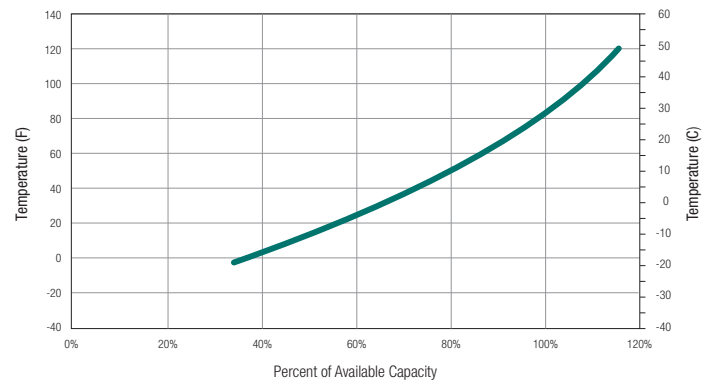
### STATE OF CHARGE MEASURE OF OPEN-CIRCUIT VOLTAGE

PERCENTAGE CHARGE	CELL	8 VOLT
100	2.14	8.56
75	2.09	8.36
50	2.04	8.16
25	1.99	7.96
0	1.94	7.76

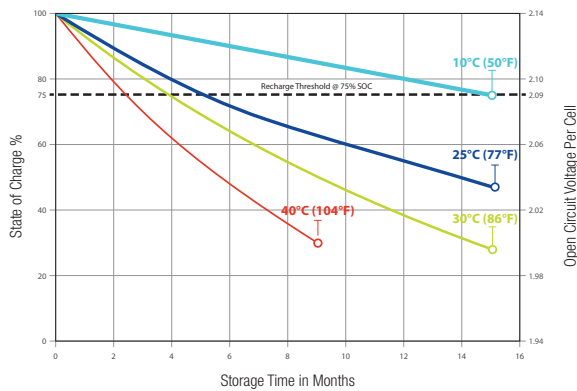
## SOLAR CYCLE-LIFE



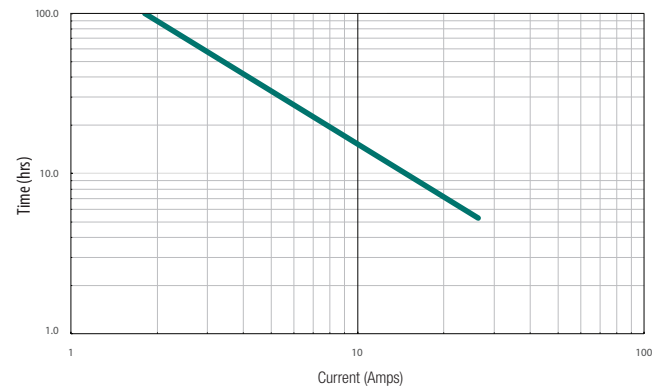
## PERCENT CAPACITY VS. TEMPERATURE



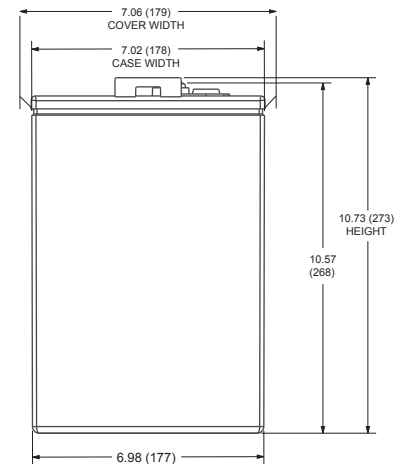
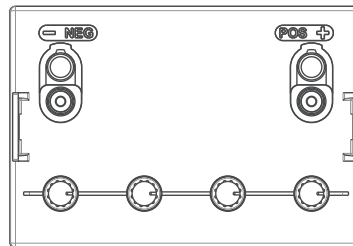
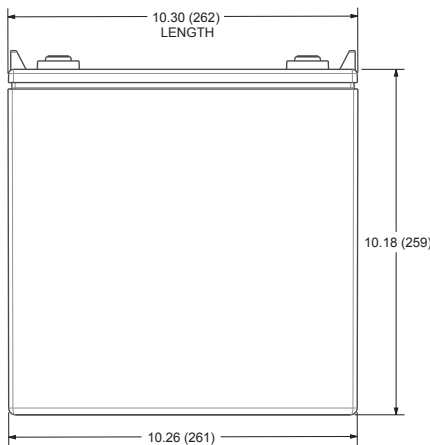
## SELF DISCHARGE VS. TIME<sup>E</sup>



## TROJAN SAGM 08 165 PERFORMANCE



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



## TERMINAL CONFIGURATIONS<sup>D</sup>

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

15	M8	M8 WITH LT ADAPTER (ADAPTER PROVIDED BUT NOT INSTALLED)
<b>Battery Height with Terminal in Inches (mm)</b> 12.07 (307)		
<b>Torque Values in-lb (Nm)</b> Connection to M8: 85 – 90 (10 – 11) Connection to LT: 65 – 75 (7.5 – 8.5)		
<b>Bolt Size</b> 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.

