

SOLAR SAGM 12 105

MODEL SAGM 12 105

VOLTAGE 12

CAPACITY 105Ah @ 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	o= (oo)		Horizontal
SAGM 12 105	M8/LT	12.80 (325)	6.81 (173)	9.34 (237)	67 (30)	Molded Plastic	and Vertical

ELECTRICAL SPECIFICATIONS

VOLTAGE		CAPACITY AMP-HOURS (Ah)			ENERGY (kWh)	INTERNAL RESISTANCE (mΩ)	SHORT CIRCUIT CURRENT (amps)	
10	10-Hr	20-Hr	48-Hr	72-Hr	100-Hr	20-Hr	4.00	2555
12	94	105	109	111	113	1.26	4.80	2555

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



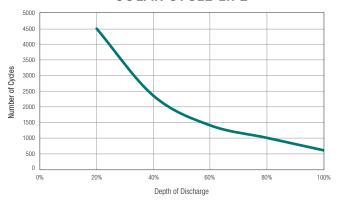




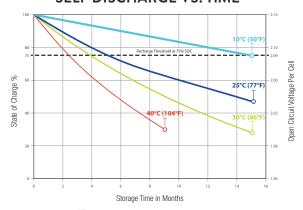
STATE OF CHARGE MEASURE OF OPEN-CIRCUIT VOLTAGE

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

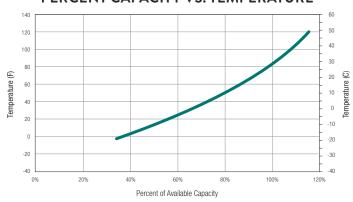
SOLAR CYCLE-LIFE



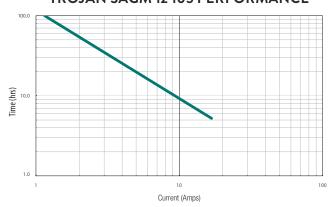
SELF DISCHARGE VS. TIME



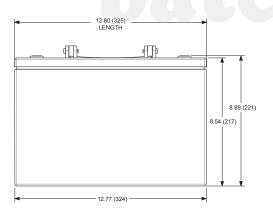
PERCENT CAPACITY VS. TEMPERATURE

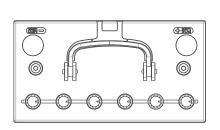


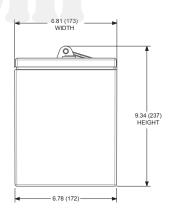
TROJAN SAGM 12 105 PERFORMANCE



BATTERY DIMENSIONS (shown with M8, height is 10.19 (259) with LT)



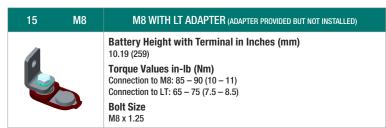




TERMINAL CONFIGURATIONS Confidental Information of Traign Batter Controlled document; user is responsible Controlled document; user is responsible

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

- 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. Dimensions may vary depending on type of handle or terminal. Batteries should be mounted with 0.5 inches
- (12.7 mm) spacing minimum.



- $Height taken from \ bottom \ of \ the \ battery \ to \ the \ highest \ point \ on \ the \ battery. Heights \ may \ vary \ depending \ on \ type \ of \ terminal.$
- Terminal images are representative only.

 A boost charge should be performed every 6 months when batteries are in storage.
- Weight may vary.









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

