

DATA SHEET



MODEL 31-AGM

VOLTAGE 12

MATERIAL Polypropylene

DIMENSIONS Inches (mm)

BATTERY VRLA AGM / Non-Spillable / Maintenance-Free

COLOR Maroon

WATERING No Watering Required







PRODUCT + PHYSICAL SPECIFICATIONS

BCI Group Size	Туре	Voltage	Terminal Type ⁶	Dimensions ^c Inches _(mm)			Weight Lbs. ¹ (kg)
				Length	Width	Height ^F	
31	31-AGM	12	M8/DT	12.80 (325)	6.81 (173)	9.37 (238)	67 (30)

ELECTRICAL SPECIFICATIONS

Cranking P	erformance	Capacity	^A Minutes	Capacity ^B Amp-Hours (Ah)		Energy kWh	Internal Resistance (mΩ)	Short Circuit Current (A)		
C.C.A. ^D @ 0°F (-18°C)	C.A. ^E @ 32°F (0°C)	@ 25 Amps	@ 75 Amps	5-Hr	10-Hr	20-Hr	100-Hr	100-Hr	4.80	2555
600	720	177		82	92	100	111	1.33		

CHARGING INSTRUCTIONS

Charger Voltage Settings (at 77°F/25°C)					
12V	24V	36V	48V		
20% of C ₂₀					
14.40	28.80	43.20	57.60		
13.50	27.00	40.50	54.00		
t	12V 14.40	12V 24V 20% 14.40 28.80	12V 24V 36V 20% of C ₂₀ 14.40 28.80 43.20		

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	0.005 volt per cell for every 1°C above 25°C
0.0028 volt per cell for every 1°F below 77°F	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

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		









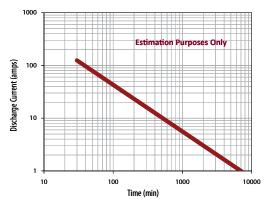




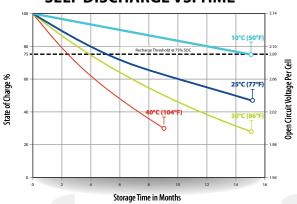




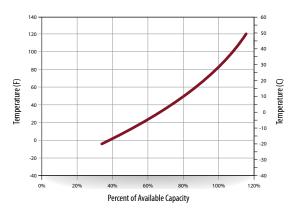
TROJAN 31-AGM PERFORMANCE



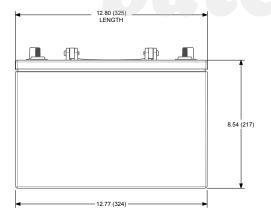
SELF DISCHARGE VS. TIME

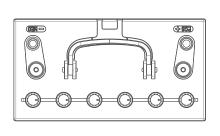


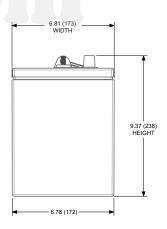
PERCENT CAPACITY VS. TEMPERATURE



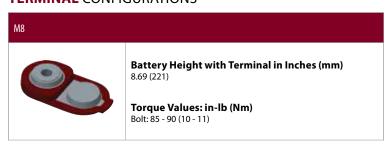
BATTERY DIMENSIONS (shown with DT)







TERMINAL CONFIGURATIONS



- 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.
- The amount of amp-hours (Ah) a battery can deliver when discharged at a constant rate at 80°F (27°C) for the 20-Hour rate and 86°F (30°C) for the 5-Hour rate 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
- D. C.C.A. (Cold Cranking Amps) the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 0°F (-18°C) at a voltage above 1.2 V/cell.



- E. C.A. (Cranking Amps) the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 32°F (0°C) at a voltage above 1.2 V/cell. This is sometimes referred to as marine cranking amps @ 32°F or M.C.A. @ 32°F.

 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.

