



DEEP CYCLE AGM OVERDRIVE AGM31

• VRLA AGM

- BCI Group 31, 12V
- CCA 730 / CA 875
- Reserve Capacity [Ah@20hr rate]: 102
- Reserve Capacity [min@25 Amps]: 180
- Energy [kWh]: 1.34
- Weight: 69 lbs.
- Length: 13.42 in (341 mm)
- Width: 6.81 in (173 mm)
- Height: 9.21 in (234 mm)
- STUD



Deep-Cycle AGM

Trojan's deep-cycle Absorbed Glass Mat (AGM) maintenance-free batteries feature a number of design elements to provide optimum performance. Robust plates and separators extend the life-cycle of Trojan's deep-cycle AGM batteries while a computer-generated grid design is optimized for high-power density. Trojan's deep-cycle AGM batteries are low temperature tolerant, shock and vibration resistant and have a low internal resistance for higher discharge current and higher charging efficiency.



TROJAN
BATTERY COMPANY

DATA SHEET

MODEL **OVERDRIVE AGM31**
VOLTAGE **12V**
CAPACITY **102Ah @ 20Hr**
MATERIAL **Polypropylene**
BATTERY TYPE **Deep Cycle VRLA AGM**

12V

PRODUCT + PHYSICAL SPECIFICATIONS

BCI Group Size	Type	Voltage	Cell(s)	Terminal Type ^G	Dimensions ^C Inches (mm)			Weight Lbs. (kg)
					Length	Width	Height ^F	
31	OVERDRIVE AGM31	12	6	11	13.42 (341)	6.81 (173)	9.21 (234)	69 (31)

ELECTRICAL SPECIFICATIONS

Cranking Performance		Capacity ^A Minutes		Capacity ^B Amp-Hours (AH)				Energy (kWh)	Internal Resistance (mΩ)	Short Circuit Current (amps)
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	—	—
730	875	180		84	93	102	112	1.34		

CHARGING INSTRUCTIONS

CHARGER VOLTAGE SETTINGS (AT 77°F/25°C)

System Voltage	12V	24V	36V	48V
Absorption Charge	14.1 – 14.4	28.2 – 28.8	42.3 – 43.2	56.4 – 57.6
Float Charge	13.5	27	40.5	54

STATE OF CHARGE MEASURE OF OPEN-CIRCUIT VOLTAGE

Percentage Charge	Specific Gravity	Cell	12 Volt
100	NA	2.14	12.84
75	NA	2.09	12.54
50	NA	2.04	12.24
25	NA	1.99	11.94
0	NA	1.94	11.64

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

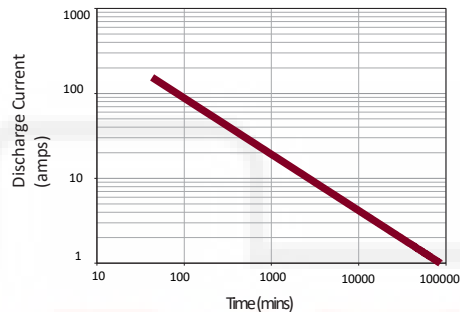
Operating Temperature	Self Discharge
-4°F to 122°F (-20°C to 50°C) At temperatures below 32°F (0°C) maintain a state of charge greater than 60%	Less than 3% per month depending on storage temperature conditions



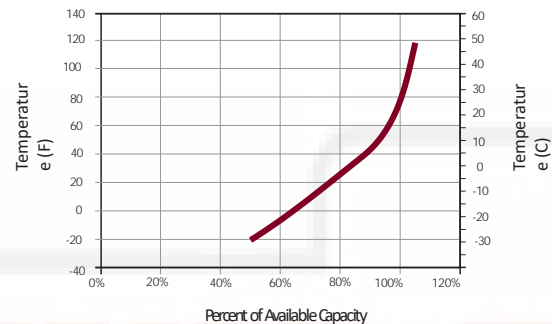
Designed in compliance with applicable BCI, DIN, BS and IEC standards. Tested in compliance to BCI and IEC standards.



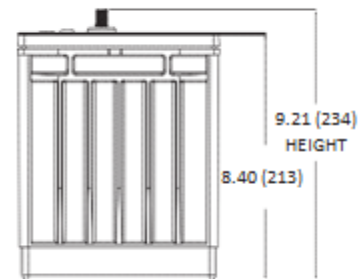
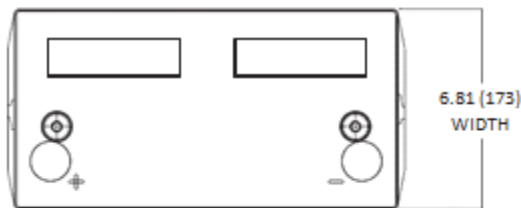
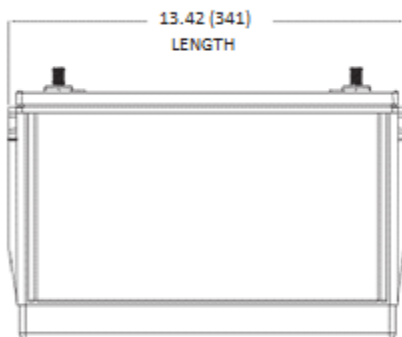
TROJAN OVERDRIVE PERFORMANCE




PERCENT CAPACITY VS. TEMPERATURE



BATTERY DIMENSIONS



TERMINAL CONFIGURATIONS

11	ST	Stud Terminal
		Terminal Height Inches (mm) 0.64 (16) Torque Values in-lb (Nm) 120 – 180 (14 – 20) Stud Size 3/8"
		

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.