TROJAN BATTERY COMPANY

DATA SHEET

MOTIVE J305-AGM

MODEL **J305-AGM**
VOLTAGE **6**
CAPACITY **310Ah @ 20Hr**
MATERIAL **Polypropylene**
BATTERY **VRLA AGM / Non-Spillable / Maintenance-Free**
COLOR **Maroon**
WATERING **No Watering Required**

6 VOLT

PHYSICAL SPECIFICATIONS

BCI	MODEL NAME	TERMINAL TYPE [G]	DIMENSIONS [C] INCHES (mm)			WEIGHT [I] LBS. (kg)	HANDLES	INSTALLATION ORIENTATION
			LENGTH	WIDTH	HEIGHT [F]			
902	J305-AGM	M8/DT/LT	11.66 (296)	6.94 (176)	14.09 (358)	95 (43)	Braided Rope	Horizontal and Vertical

ELECTRICAL SPECIFICATIONS

VOLTAGE	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	C.A.[E] @32°F	@ 25 Amps	@ 75 Amps	5-Hr	10-Hr	20-Hr	100-Hr	100-Hr		
6	–	–	670	185	250	273	310	329	1.97	1.7	3600

CHARGING INSTRUCTIONS

CHARGER VOLTAGE SETTINGS (AT 77°F/25°C)					
SYSTEM VOLTAGE	6V	12V	24V	36V	48V
Maximum Charge Current (A)	20% of C_{20}				
Absorption Voltage (2.40 V/cell)	7.20	14.40	28.80	43.20	57.60
Float Voltage (2.25 V/cell)	6.75	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

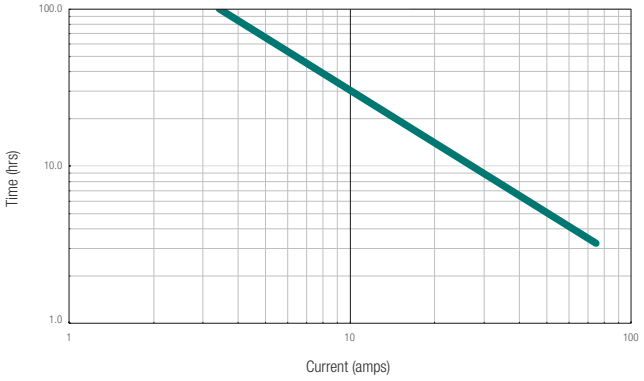
99% RECYCLABLE

6V AGM

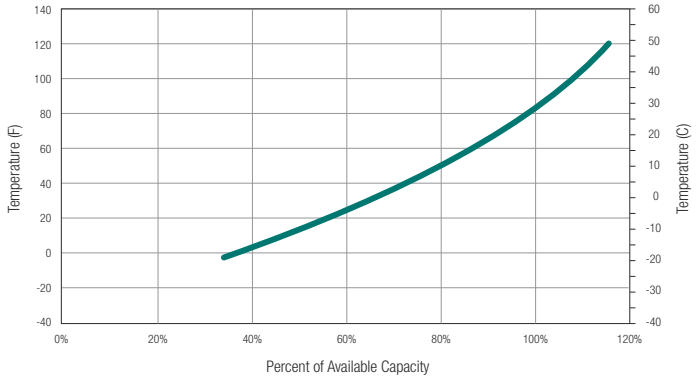
STATE OF CHARGE MEASURE OF OPEN-CIRCUIT VOLTAGE

PERCENTAGE CHARGE	CELL	6 VOLT
100	2.14	6.42
75	2.09	6.27
50	2.04	6.12
25	1.99	5.97
0	1.94	5.82

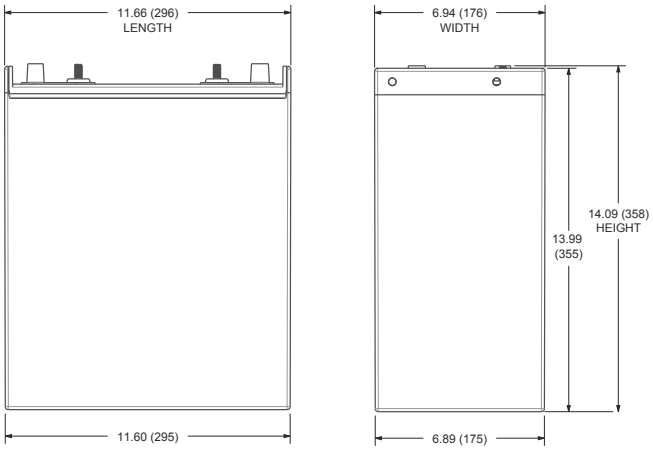
TROJAN J305-AGM PERFORMANCE

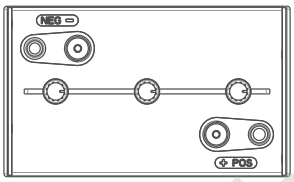


PERCENT CAPACITY VS. TEMPERATURE

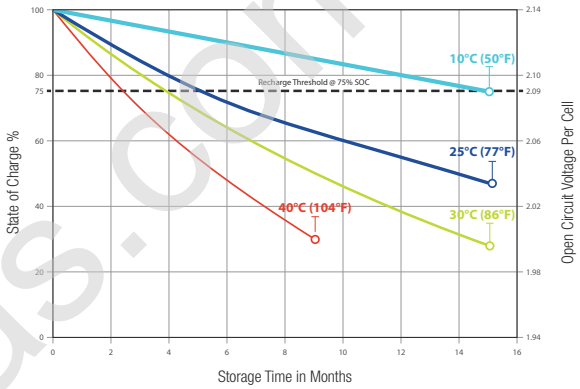


BATTERY DIMENSIONS (shown with DT)





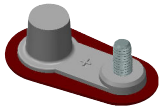
SELF DISCHARGE VS. TIME[H]



TERMINAL CONFIGURATIONS[G]

15	M8	M8
		**Battery Height with Terminal in Inches (mm)** 13.65 (347) **Torque Values in-lb (Nm)** Bolt: 85 – 90 (10 – 11)

15	M8	M8 WITH LT ADADPTER (ADAPTER PROVIDED BUT NOT INSTALLED)
		**Battery Height with Terminal in Inches (mm)** 15.15 (385) **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

6	DT	AUTOMOTIVE POST & STUD
		**Battery Height with Terminal in Inches (mm)** 14.09 (358) **Torque Values in-lb (Nm)** Connected to Stud: 95 – 105 (11 – 12) Connected to AP: 50 – 70 (6 – 8) **Bolt Size** 5/16"

A. 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.
B. 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.
C. Dimensions may vary depending on type of handle or terminal. Batteries should be mounted with 0.5 inches (12.7 mm) spacing minimum.
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.
F. Height taken from bottom of the battery to the highest point on the battery. Heights may vary depending on type of terminal.
G. Terminal images are representative only.
H. A boost charge should be performed every 6 months when batteries are in storage.
I. 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