

MODEL J305-AGM
VOLTAGE 6
MATERIAL Polypropylene
DIMENSIONS Inches (mm)
BATTERY VRLA AGM / Non-Spillable / Maintenance-Free
COLOR Maroon
WATERING No Watering Required



PRODUCT + PHYSICAL SPECIFICATIONS

BCI Group Size	Type	Terminal Type ⁶	Dimensions ^c Inches (mm)			Weight Lbs. (kg)
			Length	Width	Height ^f	
902	J305-AGM	M8/DT/LT	11.66 (296)	6.94 (176)	13.99 (355)	96.8 (44)

ELECTRICAL SPECIFICATIONS

Cranking Performance		Capacity ^A Minutes		Capacity ^B Amp-Hours (AH)			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		
—	—	670	185	250	273	310	1.7	3600

CHARGING INSTRUCTIONS

Charger Voltage Settings (at 77°F/25°C)							
System Voltage	6V	8V	12V	24V	36V	48V	
Absorption Charge (2.35 - 2.45 VPC)	7.05 – 7.35	9.4 – 9.8	14.1 – 14.7	28.2 – 29.4	42.3 – 44.1	56.4 – 58.8	
Finish Charge (2.45 VPC)	7.35	9.8	14.7	29.4	44.1	58.8	

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

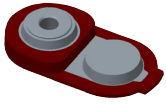
STATE OF CHARGE MEASURE OF OPEN-CIRCUIT VOLTAGE

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



TERMINAL CONFIGURATIONS⁶

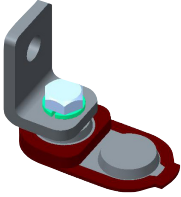
M8



Battery Height with Terminal in Inches (mm)*
13.65 (347)

Torque Values: in-lb (Nm)
Bolt: 85 – 90 (10 – 11)

M8 with LT Adapter (adapter provided but not installed)



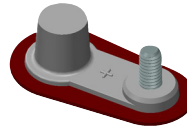
Battery Height with Terminal in Inches (mm)*
15.15 (385)

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

* Does not include additional hardware.

DT



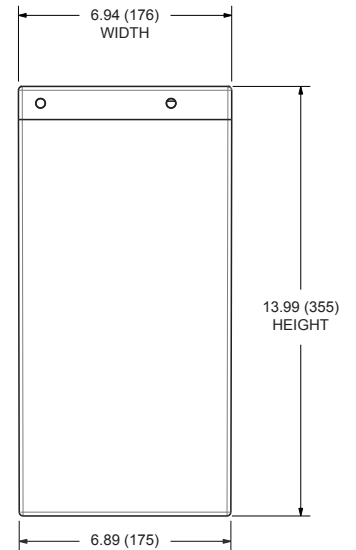
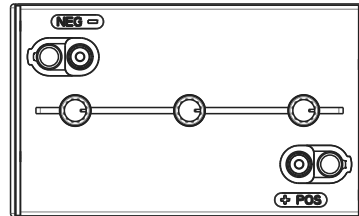
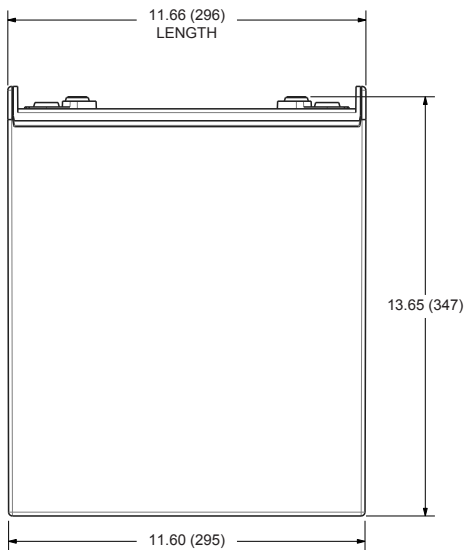
Battery Height with Terminal in Inches (mm)*
14.09 (358)

Torque Values: in-lb (Nm)
Connected to M8: 95 – 105 (11 – 12)
Connected to AP: 50 – 70 (6 – 8)

Bolt Size
5/16 – 18

BATTERY DIMENSIONS (shown with M8)

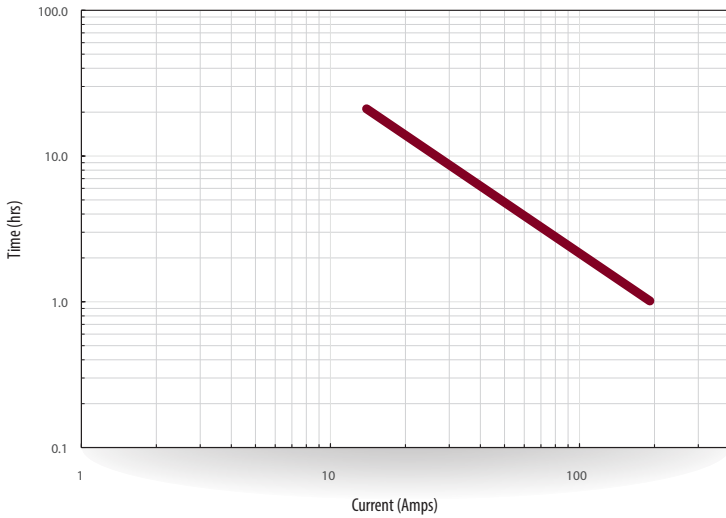
Dimensions ⁶Inches (mm)



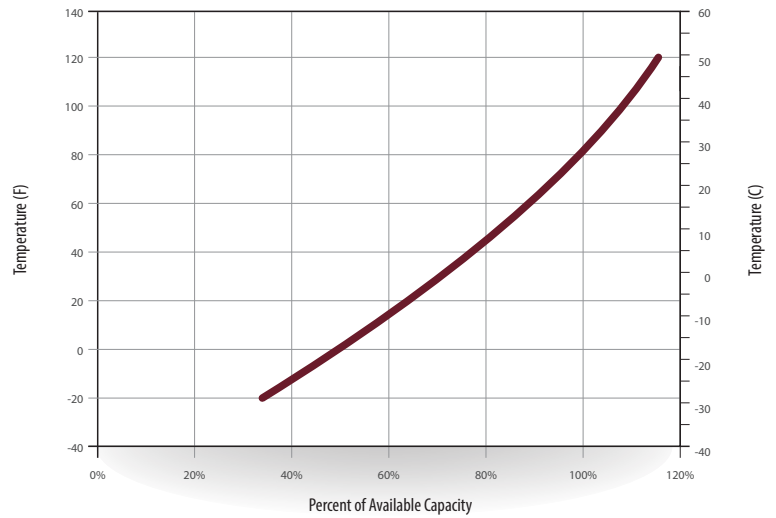
CONSTANT CURRENT DISCHARGE DATA (AMPERES AT 77°F (25°C))

End of Discharge Voltage per Cell	30 Min.	1 Hr.	2 Hr.	3 Hr.	4 Hr.	5 Hr.	6 Hr.	8 Hr.	10 Hr.	12 Hr.	20 Hr.
	0:30	1:00	2:00	3:00	4:00	5:00	6:00	8:00	10:00	12:00	20:00
1.60	320.0	185.0	108.5	78.5	61.5	51.7	44.0	34.2	28.2	24.4	15.7
1.65	310.0	183.0	107.5	77.5	60.8	51.1	43.5	34.0	28.0	24.2	15.7
1.70	300.0	177.0	105.5	76.0	59.7	50.5	43.0	33.6	27.8	24.0	15.6
1.75	285.0	170.0	103.0	75.0	59.2	50.0	42.6	33.2	27.3	23.8	15.5
1.80	262.0	158.0	95.0	69.8	55.5	47.0	40.7	32.0	26.7	23.2	15.3

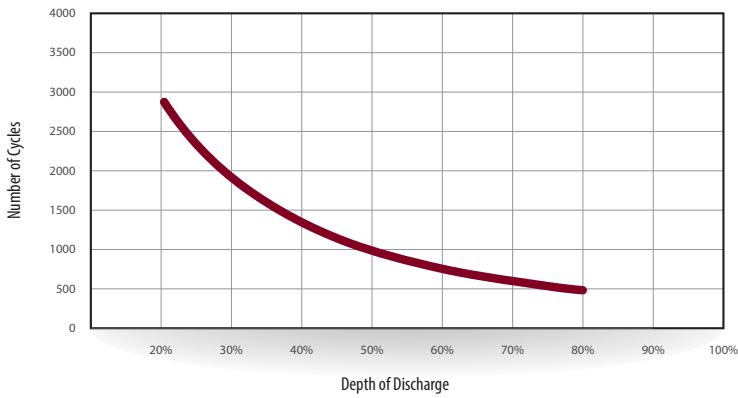
TROJAN J305-AGM PERFORMANCE



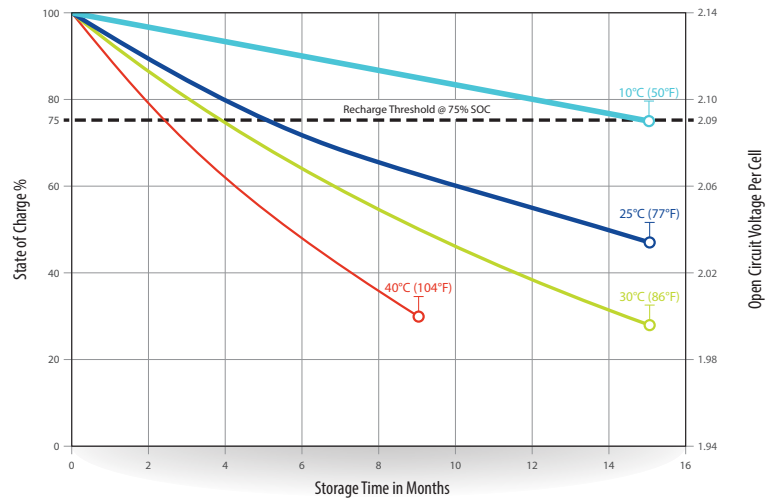
PERCENT CAPACITY VS. TEMPERATURE



DEPTH OF DISCHARGE VS. CYCLE LIFE



SELF DISCHARGE VS. TIME



- 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) and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.
- C. Dimensions are based on nominal size. Dimensions may vary depending on type of handle or terminal. Batteries should be mounted with .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. Dimensions taken from bottom of the battery to the highest point on the battery with M8 terminals. Heights may vary depending on type of terminal. Does not include installed hardware.
- G. Terminal images are representative only.



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J305-AGM Reliant DS 0115

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