

**MODEL** J185-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	Type	Terminal Type <sup>6</sup>	Dimensions <sup>c</sup> Inches (mm)			Weight Lbs. (kg)
			Length	Width	Height <sup>f</sup>	
921	J185-AGM	M8/DT/LT	14.97 (380)	6.94 (176)	14.07 (357)	125 (57)

## ELECTRICAL SPECIFICATIONS

Cranking Performance		Capacity <sup>A</sup> Minutes		Capacity <sup>B</sup> Amp-Hours (AH)			Internal Resistance (mΩ)	Short Circuit Current (amps)
C.C.A. <sup>D</sup> @ 0°F (-18°C)	C.A. <sup>E</sup> @ 32°F (0°C)	@ 25 Amps	@ 75 Amps	5-Hr	10-Hr	20-Hr		
—	—	389	110	157	171	200	4.5	2790

## 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	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



## TERMINAL CONFIGURATIONS<sup>6</sup>

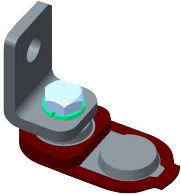
M8



**Battery Height with Terminal in Inches (mm)\***  
14.07 (357)

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

M8 with LT Adapter (adapter provided but not installed)



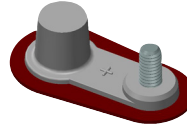
**Battery Height with Terminal in Inches (mm)\***  
15.57 (396)

**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



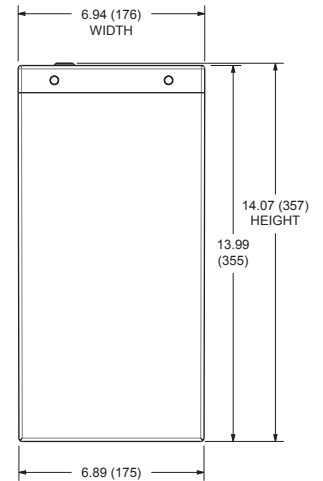
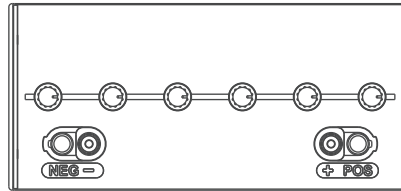
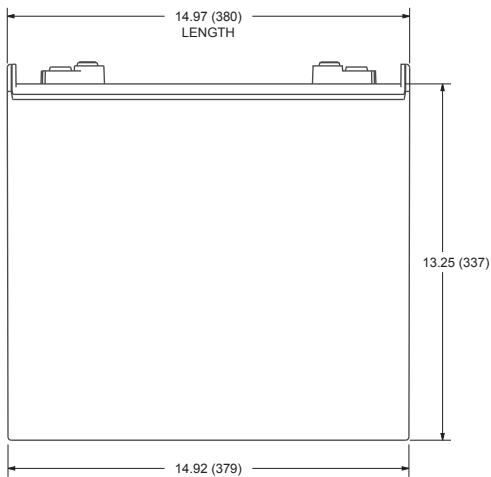
**Battery Height with Terminal in Inches (mm)\***  
14.45 (367)

**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)

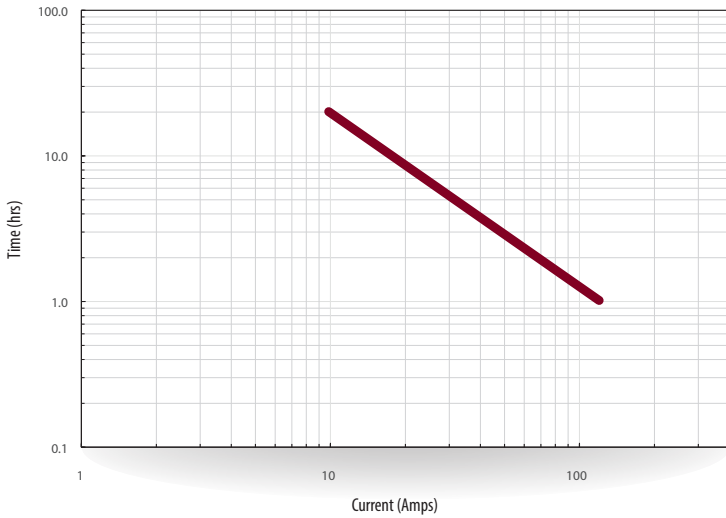
Dimensions <sup>c</sup> Inches (mm)



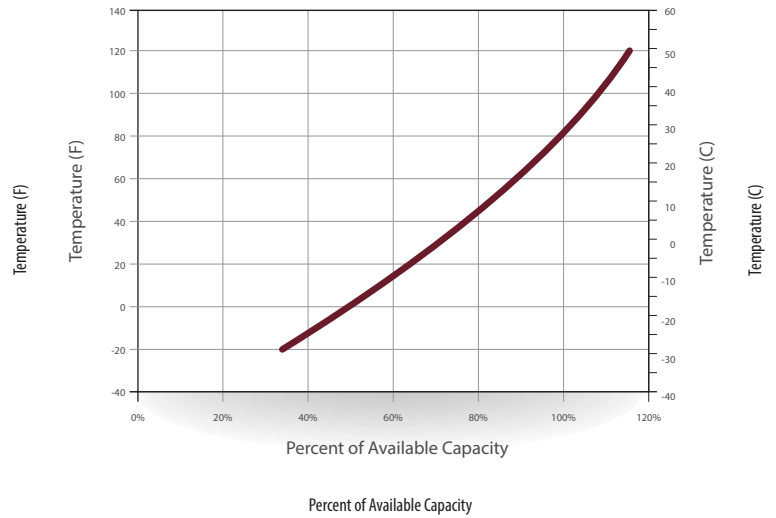
## CONSTANT CURRENT DISCHARGE DATA (AMPERES AT 77°F (25°C))

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	200.0	114.0	65.0	48.0	38.5	32.1	27.4	21.4	17.7	15.2	9.8
1.65	198.0	113.0	64.3	47.6	38.2	31.9	27.3	21.2	17.5	15.0	9.7
1.70	195.0	112.0	63.8	47.2	38.0	31.7	27.0	21.0	17.3	14.8	9.7
1.75	190.0	109.0	62.8	46.3	37.2	31.4	26.8	20.7	17.1	14.7	9.6
1.80	170.0	100.0	58.0	43.3	35.5	29.8	25.7	20.2	16.9	14.5	9.5

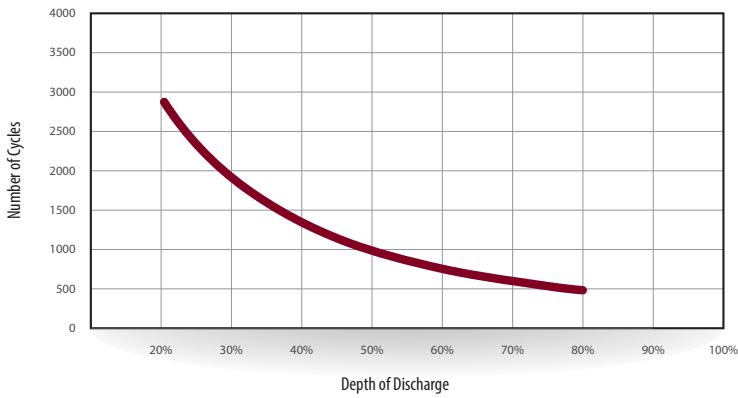
## TROJAN J185-AGM PERFORMANCE



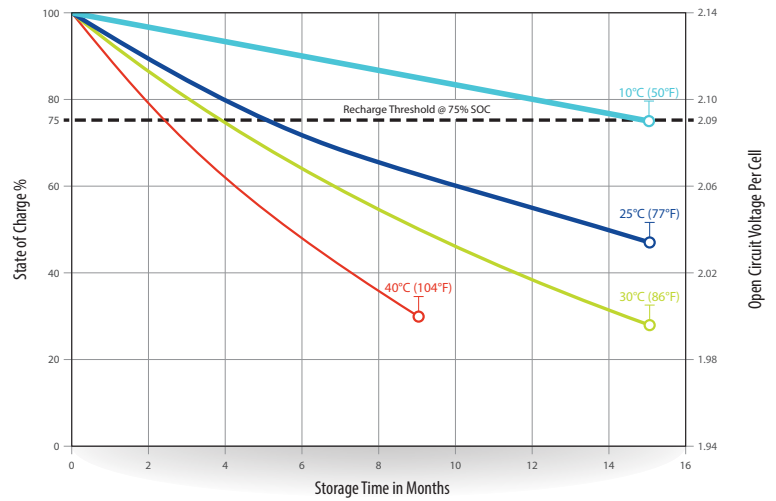
## PERCENT CAPACITY VS. TEMPERATURE



## 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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