

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 ⁶	Dimensions ^c Inches (mm)			Weight Lbs. (kg)
			Length	Width	Height ^f	
921	J185-AGM	M8/DT/LT	14.97 (380)	6.94 (176)	14.07 (357)	118.3 (54)

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		
—	—	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 CONFIGURATIONS⁶

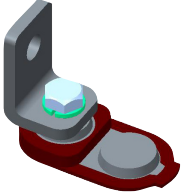
M8



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)



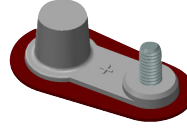
Battery Height with Terminal in Inches (mm)*
15.57 (396)

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



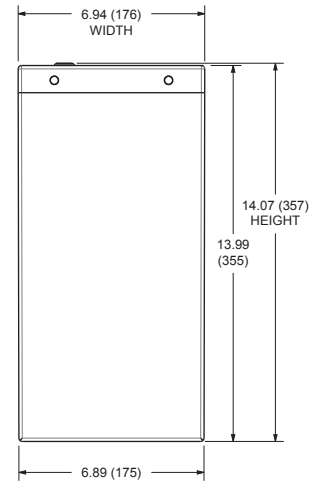
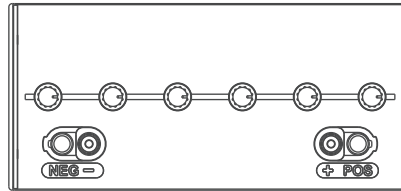
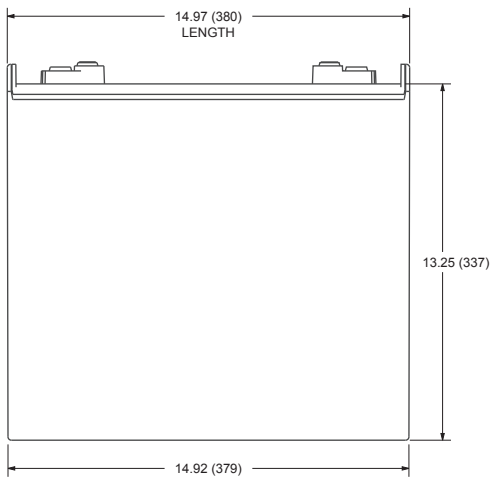
Battery Height with Terminal in Inches (mm)*
14.45 (367)

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)

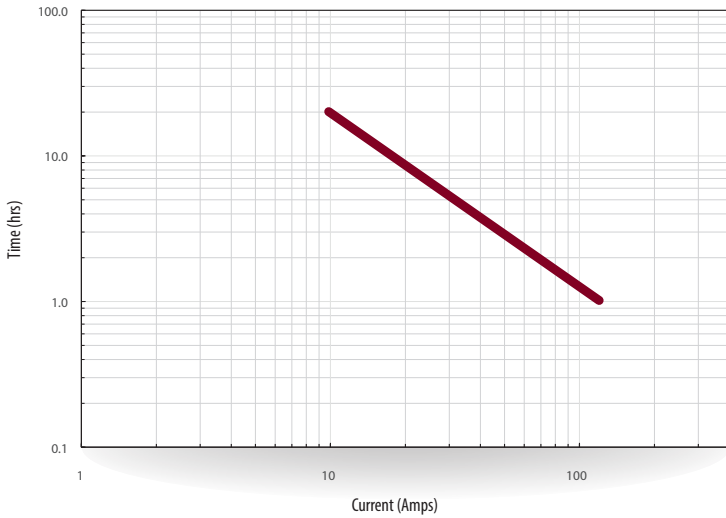
Dimensions ^c Inches (mm)



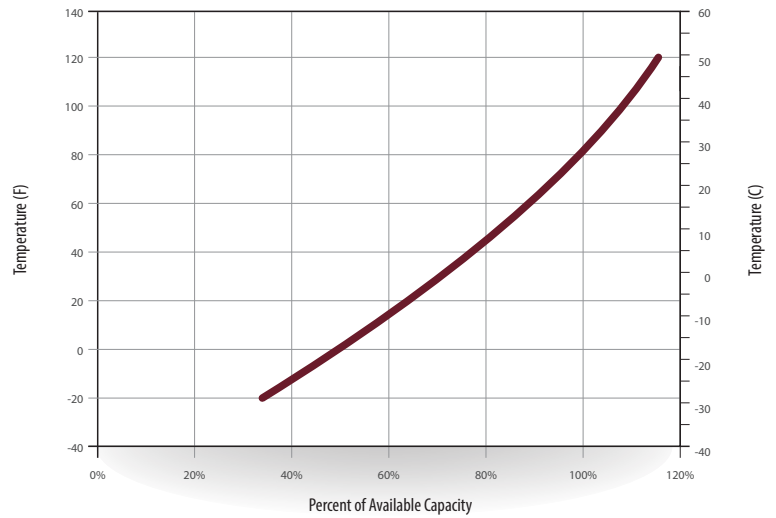
CONSTANT CURRENT DISCHARGE DATA (AMPERES AT 77°F (25°C))

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

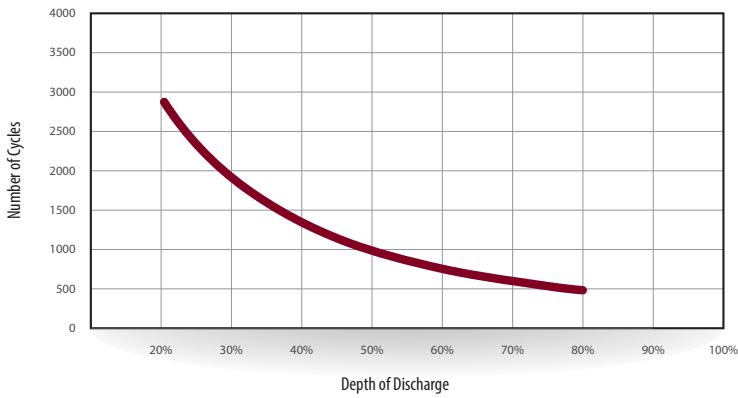
TROJAN J185-AGM PERFORMANCE



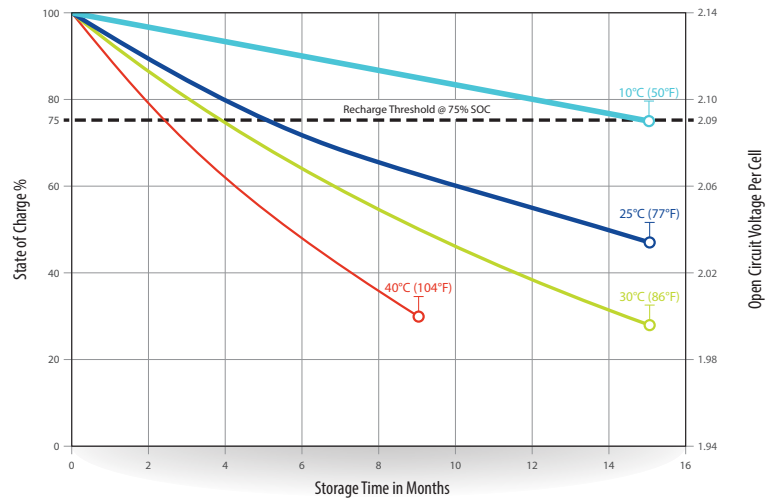
PERCENT CAPACITY VS. TEMPERATURE



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.



800.423.6569 / +1.562.236.3000 / trojanbattery.com

J185-AGM Reliant DS 0115

© 2015 Trojan Battery Company. All rights reserved. Trojan Battery Company is not liable for damages that may result from any information provided in or omitted from this publication, under any circumstances. Trojan Battery Company reserves the right to make adjustments to this publication at any time, without notices or obligation.