Trojan BATTERY COMPANY

DATA SHEET

Reliant™

MODEL **J185-AGM**
VOLTAGE **12**
MATERIAL **Polypropylene**
DIMENSIONS **Inches (mm)**
BATTERY **VRLA AGM / Non-Spillable / Maintenance-Free**
COLOR **Maroon**
WATERING **No Watering Required**

12V

PRODUCT + PHYSICAL SPECIFICATIONS

BCI Group Size	Type	Terminal Type [G]	Dimensions [C] Inches (mm)			Weight Lbs.[I] (kg)
			Length	Width	Height [F]	
921	J185-AGM	M8/DT/LT	14.97 (380)	6.94 (176)	14.45 (367)	122 (55)

ELECTRICAL SPECIFICATIONS

Cranking Performance		Capacity [A] Minutes		Capacity [B] Amp-Hours (Ah)				Energy kWh	Internal Resistance (mΩ)	Short Circuit Current (A)
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	4.5	2790
–	–	389	110	157	171	200	212	2.54		

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	9.40 – 9.80	14.10 – 14.70	28.20 – 29.40	42.30 – 44.10	56.40 – 58.80
Finish Charge (2.45 VPC)	7.35	9.80	14.70	29.40	44.10	58.80
	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

MADE IN USA

C-MAX TECHNOLOGY™

TRUE DEEP CYCLE

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

COMPLIES WITH BCIS-21 (DOT/IATA) • NOT RESTRICTED FOR SURFACE TRANSPORT – CLASSIFIED AS NON-HAZARDOUS MATERIAL PER DOT 49 CFR 173.159

IEC

Battery Council International™

TROJAN BATTERY COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV =ISO 9001:2008=

TERMINAL CONFIGURATIONS[6]

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 (395)

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

DT

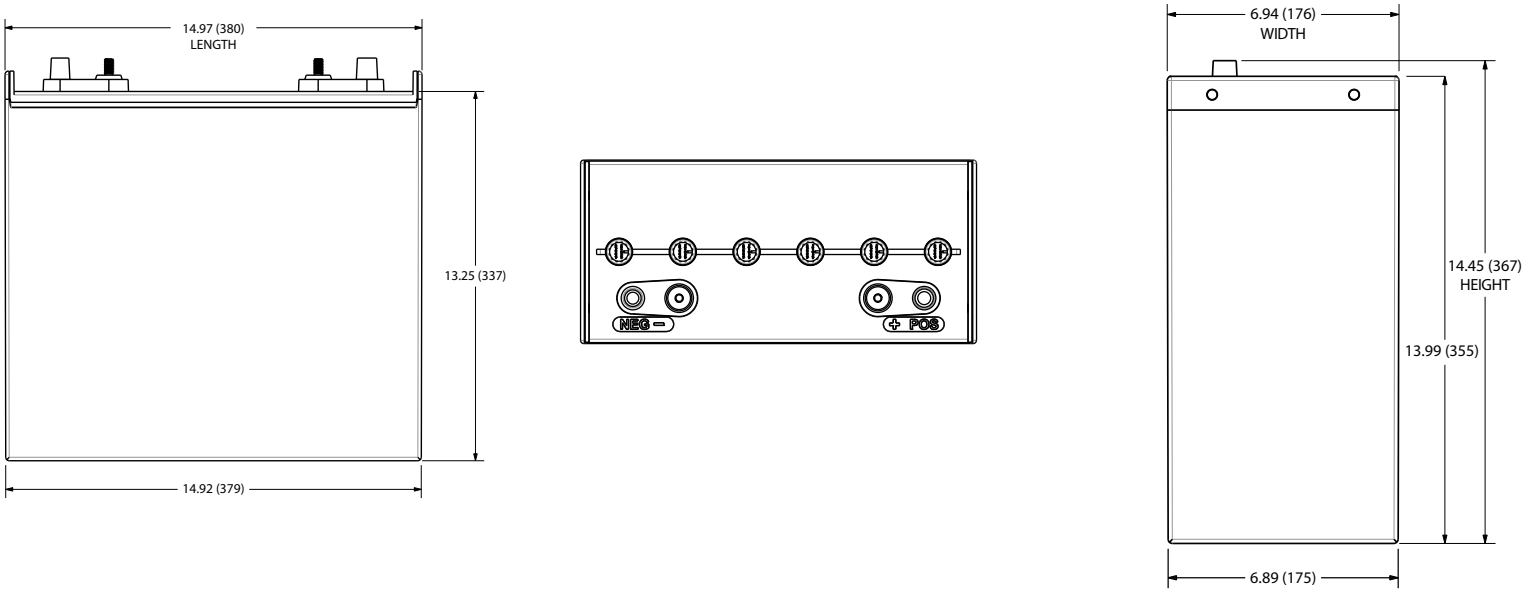
Battery Height with Terminal in Inches (mm)
14.45 (367)

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

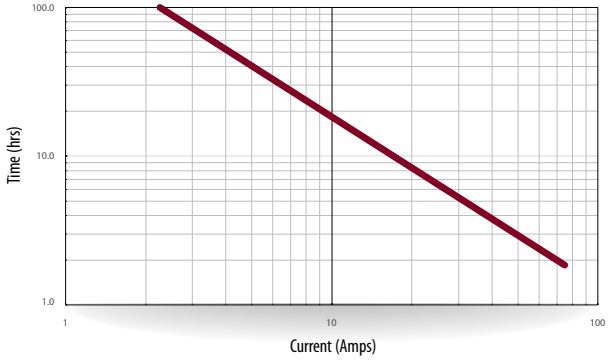
Bolt Size:
5/16"

BATTERY DIMENSIONS

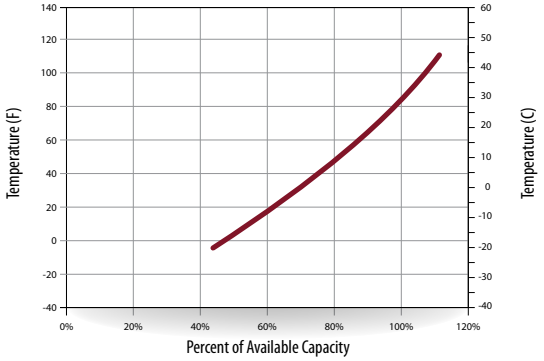
Dimensions Inches (mm)



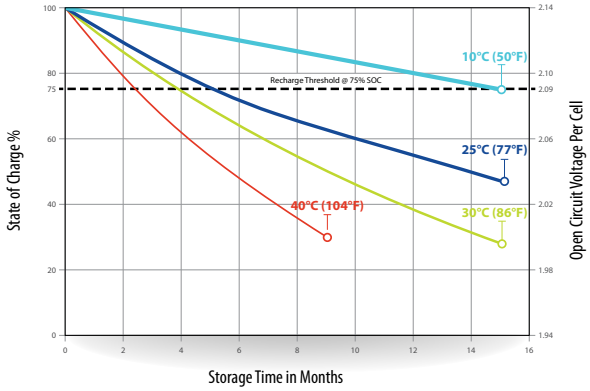
TROJAN J185-AGM PERFORMANCE



PERCENT CAPACITY VS. TEMPERATURE



SELF DISCHARGE VS. TIME[H]



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.