



# J185H-AC



1200 CYCLES @ 50 % DOD

## • TRULY DEEP CYCLE – MAXGUARD T2

- BCI Group 921, 12V
- Reserve Capacity [Ah@20hr rate]: 225
- Reserve Capacity [Ah@100hr rate]: 249
- Energy [kWh]: 2.99
- Weight: 123 lbs.
- Length: 14.97 in (380 mm)
- Width: 6.91 in (176 mm)
- Height: 14.71 in (374 mm)
- DT
- BAYONET / SINGLE POINT WATERING SYSTEM



**The Signature Line of deep-cycle flooded batteries is the flagship of Trojan's product portfolio.**

Engineered to provide rugged durability and outstanding performance, Trojan's Signature is perfectly suited for use in renewable energy systems where lowest life-cycle cost is the key consideration. An all-around power house, the Signature Line features Trojan's historically-proven engineering with T2 Technology™, an advanced battery technology for maximum sustained performance, longer life and increased total energy.





**TROJAN**  
BATTERY COMPANY

**DATA SHEET**

WWW.NATIONWIDE-BATTERY.COM

MODEL J185H-AC  
VOLTAGE 12V  
CAPACITY 225Ah @ 20Hr  
MATERIAL Polypropylene  
BATTERY TYPE Deep Cycle Flooded / Wet Lead Acid Battery

**12V**



\*Polyon™ Case

**PRODUCT + PHYSICAL SPECIFICATIONS**

BCI Group Size	Type	Voltage	Cell(s)	Terminal Type <sup>6</sup>	Dimensions <sup>c</sup> Inches (mm)			Weight Lbs. (kg)
					Length	Width	Height <sup>f</sup>	
921	J185H-AC	12	6	6	14.97 (380)	6.91 (176)	14.67 (373)	114 (52)

**ELECTRICAL SPECIFICATIONS**

Cranking Performance		Capacity <sup>A</sup> Minutes		Capacity <sup>B</sup> Amp-Hours (AH)				Energy (kWh)	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	100-Hr	100-Hr	—	—
—	—	440	121	185	207	225	249	2.99		

**CHARGING INSTRUCTIONS**

Charger Voltage Settings (at 77°F/25°C)				
System Voltage	12V	24V	36V	48V
Bulk Charge	14.82	29.64	44.46	59.28
Float Charge	13.50	27.00	40.50	54.00
Equalize Charge	16.20	32.40	48.60	64.80

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	0.005 volt per cell for every 1°C above 25°C
0.0028 volt per cell for every 1°F below 77°F	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**

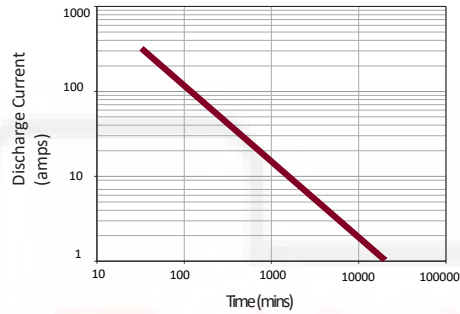
Percentage Charge	Specific Gravity	Cell	12 Volt
100	1.277	2.122	12.73
90	1.258	2.103	12.62
80	1.238	2.083	12.50
70	1.217	2.062	12.37
60	1.195	2.040	12.24
50	1.172	2.017	12.10
40	1.148	1.993	11.96
30	1.124	1.969	11.81
20	1.098	1.943	11.66
10	1.073	1.918	11.51



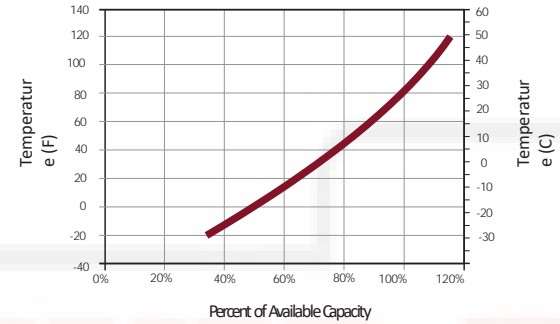
Designed in compliance with applicable BCI, DIN, BS and IEC standards. Tested in compliance to BCI and IEC standards.



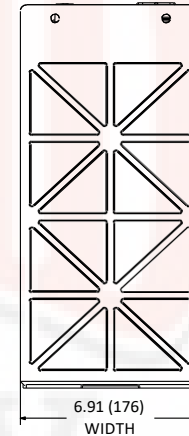
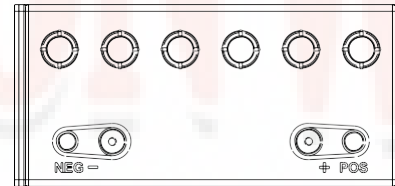
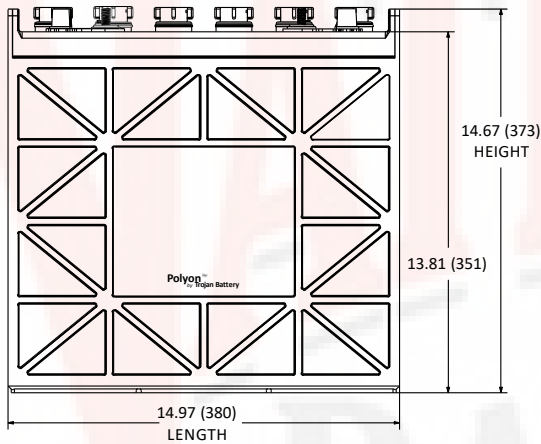
## TROJAN J185H-AC PERFORMANCE




## PERCENT CAPACITY VS. TEMPERATURE



## BATTERY DIMENSIONS



## TERMINAL CONFIGURATIONS

6	DT	Automotive Post & Stud Terminal
		<p><b>Terminal Height Inches (mm)</b> 0.79 (20)</p> <p><b>Torque Values in-lb (Nm)</b> Stud: 95 -105 (11 - 12) / AP: 50 - 70 (6 - 8)</p> <p><b>Bolt Size</b> 5/16"</p>

A. The amount of amp-hours (Ah) a battery can deliver when discharged at a constant rate at 86°F (30°C) for all rates and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.  
 B. Dimensions may vary depending on type of handle or terminal. Batteries should be mounted with 0.5 inches (12.7 mm) spacing minimum.

C. Height taken from bottom of the battery to the highest point on the battery. Heights may vary depending on type of terminal.  
 D. Terminal images are representative only.  
 E. A boost charge should be performed every 6 months when batteries are in storage.  
 F. Weight may vary.