

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 <sup>6</sup> | Dimensions <sup>c</sup> Inches (mm) |            |                     | Weight Lbs. (kg) |
|----------------|----------|----------------------------|-------------------------------------|------------|---------------------|------------------|
|                |          |                            | Length                              | Width      | Height <sup>f</sup> |                  |
| 902            | J305-AGM | M8/DT/LT                   | 11.66 (296)                         | 6.94 (176) | 13.99 (355)         | 97 (44)          |

## 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 |                          |                              |
| —                                 | —                              | 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<br>0.0028 volt per cell for every 1°F below 77°F | 0.005 volt per cell for every 1°C above 25°C<br>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)<br>At temperatures below 32°F (0°C)<br>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 CONFIGURATIONS<sup>6</sup>

M8



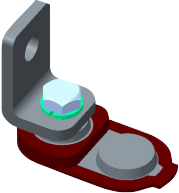
Battery Height with Terminal in Inches (mm)\*

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)

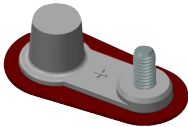
Connection to LT: 65-75 (7.5-8.5)

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

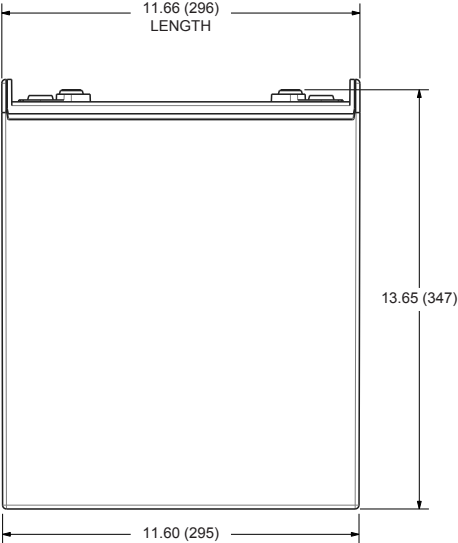
5/16 – 18

BATTERY DIMENSIONS (shown with M8)

Dimensions<sup>6</sup> Inches (mm)

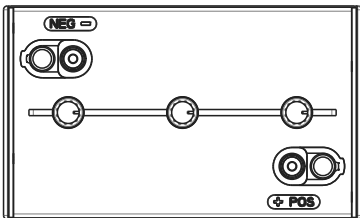
11.66 (296)

LENGTH



11.60 (295)

13.65 (347)

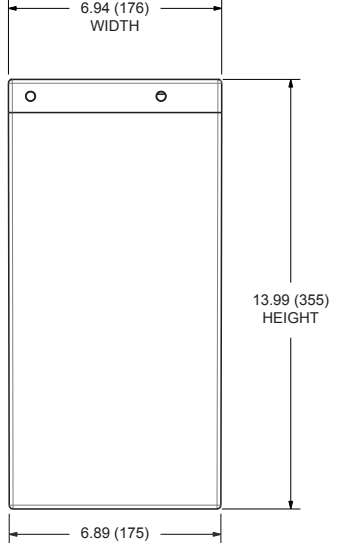


NEG

POS

6.94 (176)

WIDTH



13.99 (355)

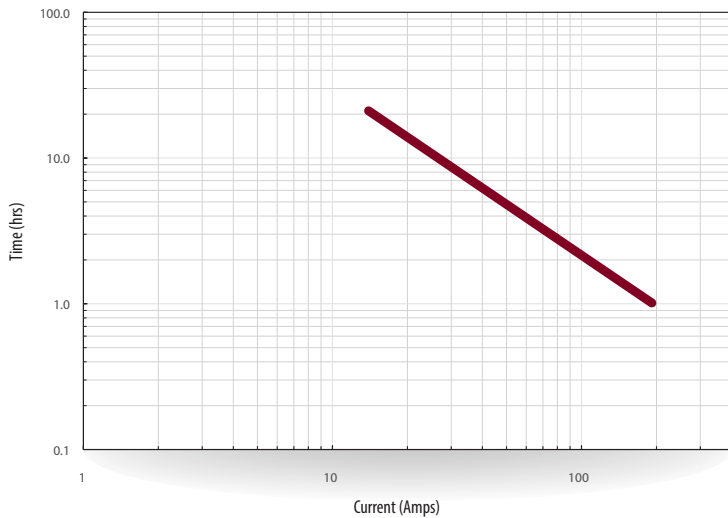
HEIGHT

6.89 (175)

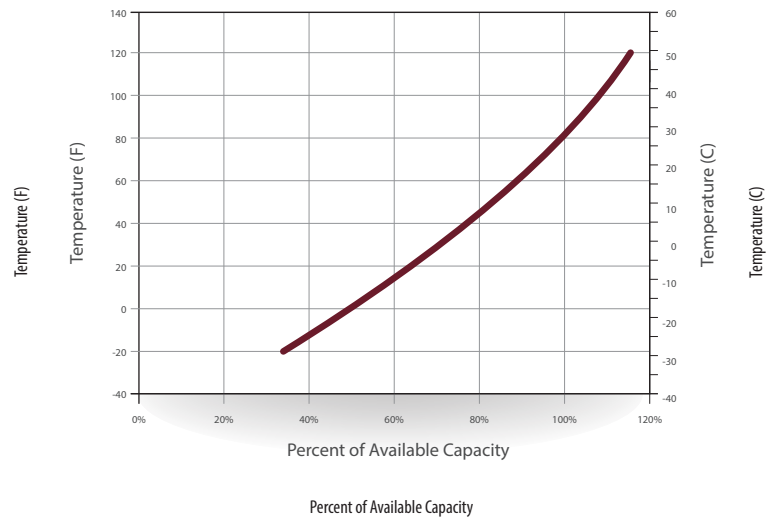
CONSTANT CURRENT DISCHARGE DATA (AMPERES AT 77°F (25°C))

| 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   |

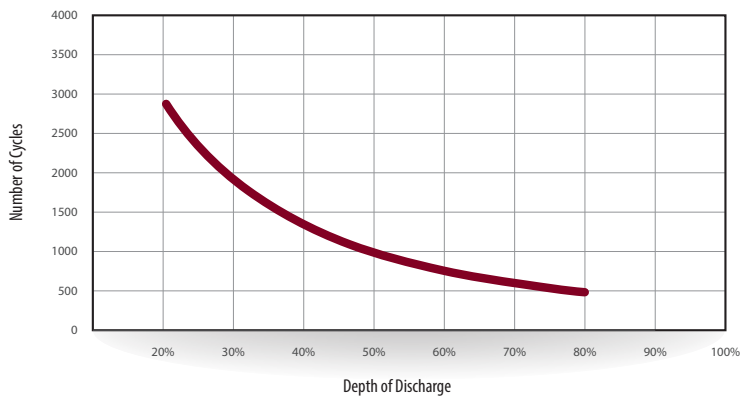
## TROJAN J305-AGM PERFORMANCE



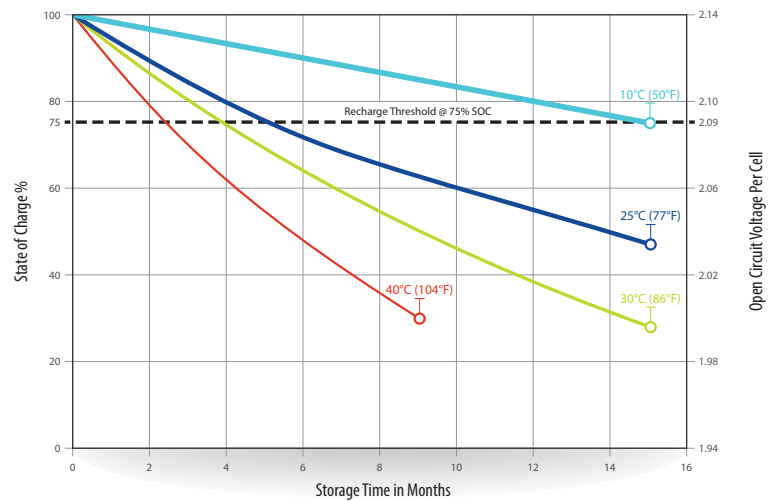
## PERCENT CAPACITY VS. TEMPERATURE



## DEPTH OF DISCHARGE VS. CYCLE LIFE



## SELF DISCHARGE VS. TIME



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- 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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