**MOTIVE J305-AGM**

**MODEL** J305-AGM  
**VOLTAGE** 6  
**CAPACITY** 310Ah @ 20Hr  
**MATERIAL** Polypropylene  
**BATTERY** VRLA AGM / Non-Spillable / Maintenance-Free  
**COLOR** Maroon  
**WATERING** No Watering Required

### PHYSICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>BCI</th>
<th>MODEL NAME</th>
<th>TERMINAL TYPE</th>
<th>DIMENSIONS (INCHES (mm))</th>
<th>WEIGHT (lbs. (kg))</th>
<th>HANDLES</th>
<th>INSTALLATION ORIENTATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>902</td>
<td>J305-AGM</td>
<td>M8/DT/LT</td>
<td>LENGTH</td>
<td>WIDTH</td>
<td>HEIGHT</td>
<td>95 (43)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>11.66 (296)</td>
<td>6.94 (176)</td>
<td>14.09 (358)</td>
<td></td>
</tr>
</tbody>
</table>

### ELECTRICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>VOLTAGE</th>
<th>Cranking Performance</th>
<th>Capacity @ 25 Amps</th>
<th>Capacity @ 75 Amps</th>
<th>CAPACITY @ 5-Hr</th>
<th>ENERGY (kWh)</th>
<th>INTERNAL RESISTANCE (mΩ)</th>
<th>SHORT CIRCUIT CURRENT (amps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>6.75</td>
<td>13.50</td>
<td>27.00</td>
<td>40.50</td>
<td>54.00</td>
<td>1.7</td>
<td>3600</td>
</tr>
</tbody>
</table>

### CHARGING INSTRUCTIONS

**CHARGER VOLTAGE SETTINGS (AT 77°F/25°C)**

<table>
<thead>
<tr>
<th>SYSTEM VOLTAGE</th>
<th>6V</th>
<th>12V</th>
<th>24V</th>
<th>36V</th>
<th>48V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Charge Current (A)</td>
<td>20% of C20</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Absorption Voltage (2.40 V/cell)</td>
<td>7.20</td>
<td>14.40</td>
<td>28.80</td>
<td>43.20</td>
<td>57.60</td>
</tr>
<tr>
<td>Float Voltage (2.25 V/cell)</td>
<td>6.75</td>
<td>13.50</td>
<td>27.00</td>
<td>40.50</td>
<td>54.00</td>
</tr>
</tbody>
</table>

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**CHARGING TEMPERATURE COMPENSATION**

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

**SUBTRACT**  
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**  
-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%.

**SELF DISCHARGE**  
Less than 3% per month depending on storage temperature conditions

**STATE OF CHARGE MEASURE OF OPEN-CIRCUIT VOLTAGE**

<table>
<thead>
<tr>
<th>PERCENTAGE CHARGE</th>
<th>CELL</th>
<th>6V</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>2.14</td>
<td>6.42</td>
</tr>
<tr>
<td>75</td>
<td>2.09</td>
<td>6.27</td>
</tr>
<tr>
<td>50</td>
<td>2.04</td>
<td>6.12</td>
</tr>
<tr>
<td>25</td>
<td>1.99</td>
<td>5.97</td>
</tr>
<tr>
<td>0</td>
<td>1.94</td>
<td>5.82</td>
</tr>
</tbody>
</table>
TROJAN J305-AGM PERFORMANCE

PERCENT CAPACITY VS. TEMPERATURE

TROJAN J305-AGM PERFORMANCE

BATTERY DIMENSIONS (shown with DT)

TERMINAL CONFIGURATIONS

15 M8

Battery Height with Terminal in Inches (mm)
13.65 (347)
Torque Values in-lb (Nm)
Bolt: 85 – 90 (10 – 11)

15 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)

6 DT

AUTOMOTIVE POST & STUD

Battery Height with Terminal in Inches (mm)
14.09 (358)
Torque Values in-lb (Nm)
Connected to Stud: 95 – 105 (11 – 12)
Connected to AP: 50 – 70 (6 – 8)
Bolt Size
M8 x 1.25

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.

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