DCS-75BT

VALVE REGULATED LEAD ACID BATTERY FOR DEEP CYCLE MOBILITY APPLICATIONS
12V 64 AH @ 5 HR RATE
12V 75 AH @ 20 HR RATE

FEATURES

- Robust plate for extended cycle life.
- Computer-generated grid design optimized for high power density.
- Low calcium grid alloy for reduced gas emissions and ease of recycling.
- Flame-arresting one-way pressure-relief vent for safety and long life.
- UL-recognized component.
- Multicell design for economy of installation and maintenance.
- Case and cover available in standard polypropylene.
- Thermally welded case-to-cover bond to eliminate leakage.
- Removable carrying handles.
- Can be used in any orientation. Upright, side, or end mounting recommended.
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance.
- Not restricted for air transport – Complies with IATA/ICAO Special Provision A67.
- Not restricted for surface transport – classified as non-hazardous material as related to DOT-CFR Title 49 parts 171-189.
- Not restricted for water transport – classified as non-hazardous material per IMDG Amendment 27.
- Dual Bi-Marine Terminal to accept ring lug and standard SAE automotive connections.

12 Volts – 75 Ampere Hour Capacity @ 20 Hour Rate

<table>
<thead>
<tr>
<th>Discharge in Hours</th>
<th>1.00</th>
<th>2.00</th>
<th>3.00</th>
<th>4.00</th>
<th>5.00</th>
<th>6.00</th>
<th>7.00</th>
<th>8.00</th>
<th>10.00</th>
<th>12.00</th>
<th>20.00</th>
<th>24.00</th>
<th>20.00</th>
<th>100.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amp-Hr Capacity</td>
<td>43.5</td>
<td>53.2</td>
<td>58.5</td>
<td>62.0</td>
<td>64.5</td>
<td>66.6</td>
<td>68.3</td>
<td>69.6</td>
<td>71.0</td>
<td>72.0</td>
<td>75.0</td>
<td>75.6</td>
<td>77.8</td>
<td>78.0</td>
</tr>
</tbody>
</table>
DCS-75BT – Specifications

<table>
<thead>
<tr>
<th>Cells Per Unit</th>
<th>Voltage Per Unit</th>
<th>Weight</th>
<th>Electrolyte</th>
<th>Maximum Discharge Current</th>
<th>Short Circuit Current</th>
<th>Ohms Imped. 60 Hz (Ω)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>12.84</td>
<td>54 lbs. 25 kg</td>
<td>Absorbed H₂SO₄ SG = 1.300</td>
<td>600 Amps</td>
<td>3100 Amps @ 0.1 sec.</td>
<td>0.0045 Ohms</td>
</tr>
</tbody>
</table>

Capacity
- 64.0 Ah @ 5 hr. rate to 1.75 volts per cell @ 77°F (25°C)
- 75.0 Ah @ 20 hr. rate to 1.75 volts per cell @ 77°F (25°C)
- 68.2 Ah @ 10 hr. rate to 1.80 volts per cell @ 20°C (68°F)

Operating Temperature Range
- Discharge: -40°F (-40°C) to +160°F (71°C), Charge: -10°F (-23°C) to +140°F (60°C) (with temperature compensation)

Recommended Operating Temperature Range
- +74°F (23°C) to +80°F (27°C)

Float Charging Voltage
- 13.5 to 13.8 VDC/unit Average at 77°F (25°C).

Recommended Maximum Charging Current Limit
- C/5 amperes (15.0 amperes @ 100% depth of discharge) @ 20 hour rate

Equalization and Cycle Service Charging Voltage
- 14.4 to 14.8 VDC/unit Average at 77°F (25°C).

Maximum AC Ripple (Charger)
- 0.5% RMS or 1.5% P-P of float charge voltage recommended for best results.
- Maximum AC ripple float charge voltage allowed = (4% P-P)
- Maximum AC ripple current allowed = 3.75 amperes RMS (C/20)

Self Discharge
- Dynasty batteries may be stored for up to 6 months at 77°F (25°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.

Accessories
- Inter unit connectors, racks and cabinet systems are available.

Terminal
- 5/16-18 UNC stainless steel stud and standard SAE automotive posts.

Terminal Hardware Initial Torque
- 50-70 in.-lbs.; Stud post – 1/2 turn past hand tight.

Terminal Hardware Annual Retorque
- 40-55 in.-lbs.; Stud post – unlighten then 1/2 turn past hand tight.

Constant Current Discharge Ratings – Amperes @ 77°F (25°C)

<table>
<thead>
<tr>
<th>End Point Volts/Cell</th>
<th>1.00</th>
<th>2.00</th>
<th>3.00</th>
<th>4.00</th>
<th>5.00</th>
<th>6.00</th>
<th>7.00</th>
<th>8.00</th>
<th>10.00</th>
<th>12.00</th>
<th>20.00</th>
<th>24.00</th>
<th>72.00</th>
<th>100.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.90</td>
<td>34.0</td>
<td>21.0</td>
<td>15.5</td>
<td>12.3</td>
<td>10.30</td>
<td>8.90</td>
<td>7.84</td>
<td>7.00</td>
<td>5.80</td>
<td>5.00</td>
<td>3.20</td>
<td>2.70</td>
<td>0.95</td>
<td>0.69</td>
</tr>
<tr>
<td>1.85</td>
<td>38.2</td>
<td>23.8</td>
<td>17.7</td>
<td>14.3</td>
<td>11.90</td>
<td>10.25</td>
<td>9.03</td>
<td>8.10</td>
<td>6.66</td>
<td>5.60</td>
<td>3.50</td>
<td>2.95</td>
<td>1.02</td>
<td>0.74</td>
</tr>
<tr>
<td>1.80</td>
<td>41.0</td>
<td>25.3</td>
<td>18.8</td>
<td>15.0</td>
<td>12.50</td>
<td>10.80</td>
<td>9.50</td>
<td>8.50</td>
<td>6.96</td>
<td>5.90</td>
<td>3.70</td>
<td>3.10</td>
<td>1.06</td>
<td>0.77</td>
</tr>
<tr>
<td>1.75</td>
<td>43.5</td>
<td>26.6</td>
<td>19.5</td>
<td>15.5</td>
<td>12.90</td>
<td>11.10</td>
<td>9.75</td>
<td>8.70</td>
<td>7.10</td>
<td>6.00</td>
<td>3.75</td>
<td>3.15</td>
<td>1.08</td>
<td>0.78</td>
</tr>
</tbody>
</table>

Note: Batteries to be mounted with 0.5 in. (1.25 cm) spacing minimum and free air ventilation. Specifications subject to change without notification.