DCS-88BT
VALVE REGULATED
LEAD ACID BATTERY
FOR DEEP CYCLE
MOBILITY APPLICATIONS
12V 74 AH @ 5 HR RATE
12V 88 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 – 88 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>24.00</th>
<th>24.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amp-Hr Capacity</td>
<td>47.0</td>
<td>58.0</td>
<td>66.0</td>
<td>70.8</td>
<td>74.0</td>
<td>76.2</td>
<td>78.0</td>
<td>79.2</td>
<td>81.7</td>
<td>83.6</td>
<td>88.0</td>
<td>88.8</td>
<td>93.0</td>
<td>95.0</td>
</tr>
</tbody>
</table>
**DCS-88BT**

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

<table>
<thead>
<tr>
<th>End Point Volts/Cell</th>
<th>Operating Time to End Point Voltage (in hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.00</td>
</tr>
<tr>
<td>1.90</td>
<td>36.5</td>
</tr>
<tr>
<td>1.85</td>
<td>40.6</td>
</tr>
<tr>
<td>1.80</td>
<td>44.0</td>
</tr>
<tr>
<td>1.75</td>
<td>47.0</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.

---

**DCS-88BT – 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>64 lbs. 30 kg</td>
<td>Absorbed H₂SO₄ SG = 1.300</td>
<td>800 Amps</td>
<td>3300 Amps @ 0.1 sec.</td>
<td>0.0045 Ohms</td>
</tr>
</tbody>
</table>

**Capacity**

- 74.0 Ah @ 5 hr. rate to 1.75 volts per cell @ 77°F (25°C)
- 88.0 Ah @ 20 hr. rate to 1.75 volts per cell @ 77°F (25°C)
- 78.0 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 (17.6 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)

**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 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 – untighten then 1/2 turn past hand tight.

**Note:** All dimensions in inches and (millimeters). All dimensions are for reference only. Contact a C&D Representative for complete dimensional information.