DCG12-110

12V 110.0 AH @ 20-hr.
12V 102.3 AH @ 10-hr.

Rechargeable Sealed Lead Acid Battery
DCG – Deep Cycle Gel Series

TERMINALS: (mm)

T6: Threaded insert with 6mm stud fastener

5mm

M6

16mm

Torque: 3.9~5.4 Nxm

FEATURES

• Thixotropic gel electrolyte for enhanced performance
• Valve regulated, maintenance free spill proof construction
• Specifically engineered for cyclic applications
• Power/volume ratio yielding excellent energy density
• Gas recombination technology
• Rugged vibration and impact resistant ABS case and cover (UL94-HB) Also available to UL94-V0

APPROVALS

• U.L recognized
• ISO9001:2015 – Quality management systems

DIMENSIONS: inch (mm)

<table>
<thead>
<tr>
<th>L (mm)</th>
<th>W (mm)</th>
<th>H (mm)</th>
<th>HT (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.14</td>
<td>6.97</td>
<td>8.86</td>
<td>8.86</td>
</tr>
</tbody>
</table>

Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.

PERFORMANCE SPECIFICATIONS

Nominal Voltage 12 volts (6 cells)

Nominal Capacity
20-hr. (5.5A to 10.80 volts) 110.0 AH
10-hr. (10.23A to 10.50 volts) 102.3 AH
5-hr. (17.6A to 10.50 volts) 88.0 AH
3-hr. (27.0A to 10.50 volts) 81.0 AH
1-hr. (60.5A to 10.00 volts) 60.5 AH

Approximate Weight 79.4 lbs. (36.0 kg)

Internal Resistance (approx.) 5.1 milliohms

Shelf Life (% of nominal capacity at 68°F (20°C)
1 Month 97%
3 Month 91%
6 Month 83%

Operating Temperature Range
Charge 5°F (-15°C) to 122°F (50°C)
Discharge -4°F (-20°C) to 140°F (60°C)

Case ABS Plastic

Recommended Power Sonic Chargers PSC-1220000-PC

To ensure safe and efficient operation always refer to the latest edition of our Technical Manual, as published on our website.
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12V 110.0 AH @ 20-hr.
12V 102.3 AH @ 10-hr.

Rechargeable Sealed Lead Acid Battery
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CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE

Acc. to IEC 896-2 (25°C/77°F)

<table>
<thead>
<tr>
<th>Number of Cycles</th>
<th>Extracted Capacity (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>100</td>
</tr>
<tr>
<td>800</td>
<td>90</td>
</tr>
<tr>
<td>1200</td>
<td>80</td>
</tr>
<tr>
<td>1600</td>
<td>70</td>
</tr>
<tr>
<td>2000</td>
<td>60</td>
</tr>
<tr>
<td>2400</td>
<td>50</td>
</tr>
<tr>
<td>2800</td>
<td>40</td>
</tr>
<tr>
<td>3200</td>
<td>30</td>
</tr>
<tr>
<td>3600</td>
<td>20</td>
</tr>
<tr>
<td>4000</td>
<td>10</td>
</tr>
</tbody>
</table>

GENERAL RELATION OF CAPACITY VS. STORAGE TIME

Residual average capacity as % of C20

<table>
<thead>
<tr>
<th>Storage Time (months)</th>
<th>Available Capacity (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>120</td>
</tr>
<tr>
<td>5</td>
<td>100</td>
</tr>
<tr>
<td>10</td>
<td>80</td>
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<tr>
<td>15</td>
<td>60</td>
</tr>
<tr>
<td>20</td>
<td>40</td>
</tr>
<tr>
<td>25</td>
<td>20</td>
</tr>
</tbody>
</table>

CHARGING

Cycle Applications: Apply constant voltage charge at 2.35v/c – 2.45v/c (14.1 – 14.7v for 12v Monobloc) at 20°C. Initial charging current should be set at less than 0.25C Amps. Switch to float charge to avoid overcharging.

"Float" or "Stand-By" Service: Apply constant voltage charge of 2.25v/c – 2.30v/c (13.5 to 13.8 volts for 12v Monobloc at 20°C. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

Temperature Compensation: Charging Voltage for both Cyclic and Standby applications should be regulated in relation to ambient temperature. As temperature rises charging voltage should be reduced to prevent overcharge and increased as temperature falls to avoid undercharge.

For further charging information including temperature compensation factors, see Power Sonic Technical Manual/Power Sonic Charger specifications.

APPLICATIONS

A whole range of CYCLIC applications including but not limited to:
- Medical
- Solar
- Wind
- Mobility
- Golf Carts

CHARGERS

Power Sonic offers a wide range of chargers suitable for batteries with a variety of capacities.

Please refer to our website for more information on our switch mode and transformer type chargers.

Please contact our technical department for advice if you have difficulty in locating a suitable charger.

FURTHER INFORMATION

Please refer to our website www.power-sonic.com for a complete range of useful downloads, such as product catalogs, material safety data sheets (MSDS), ISO certification, etc.