GEL-Power  always energy to spare
Marine • Mobile • Land based • Solar • Industrial • Back-up

- Deep cycle “long life” battery
- For heavy duty service
- Maintenance free, recombination (VRLA) type
- Shock resistant, heavy duty casing
- Limited ventilation needed
- Transportation by air approved
- For extended cycle life

12 V
100 Ah • 145 Ah • 180 Ah • 225 Ah

smart energy solutions
GEL Power Specifications

<table>
<thead>
<tr>
<th>Part #</th>
<th>40290070</th>
<th>40290071</th>
<th>40290072</th>
<th>40290073</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal capacity (C20)</td>
<td>100 Ah</td>
<td>145 Ah</td>
<td>180 Ah</td>
<td>225 Ah</td>
</tr>
<tr>
<td>Nominal voltage</td>
<td>12.0 VDC</td>
<td>12.0 VDC</td>
<td>12.0 VDC</td>
<td>12.0 VDC</td>
</tr>
<tr>
<td>Weight</td>
<td>30.0 Kg</td>
<td>44.0 Kg</td>
<td>53.0 Kg</td>
<td>65.0 Kg</td>
</tr>
<tr>
<td>Dimensions [<em>w</em>h] (excl. terminals)</td>
<td>328<em>172</em>222</td>
<td>340<em>173</em>280</td>
<td>530<em>209</em>214</td>
<td>522<em>240</em>219</td>
</tr>
<tr>
<td>Terminal type</td>
<td>M8 stainless steel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of cells</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
</tbody>
</table>

Charge/discharge parameters

- Constant voltage Charging (IU, float)
  - 13.60 to 13.80 VDC @ 25C
- Cyclic Charging (IUU, absorption)
  - 14.25 to 14.60 VDC @ 25 C
- Recommended charging current limit (higher possible)
  - 20.0 A
  - 29.0 A
  - 36.0 A
  - 45.0 A
- Temperature cut-off ratio
  - 4 mV/cell/°C
- Discharge cut-off voltage
  - 1.75 VDC (A) <= 0.2 C
  - 1.70 VDC (A) <= 1.0 C
  - 1.65 VDC (A) >= 1.0 C
- 100% depth of discharge (D.O.D)

Rated Capacity @ 25°C

<table>
<thead>
<tr>
<th>Capacity (Ah)</th>
<th>20 hrs discharge</th>
<th>10 hrs discharge</th>
<th>5 hrs discharge</th>
<th>Peukert Coefficient</th>
<th>Time reserve minutes</th>
<th>25 amps discharge</th>
<th>Self discharge</th>
<th>Storage time</th>
</tr>
</thead>
<tbody>
<tr>
<td>100.0 Ah</td>
<td>100.0 Ah</td>
<td>95.0 Ah</td>
<td>84.0 Ah</td>
<td>1.21 &lt;p&lt; 1.24</td>
<td>165 minutes</td>
<td>341 minutes</td>
<td>less than 3%</td>
<td>GEL-power batteries can be stored for maximum 6 months at 25°C, Charging recommended before using.</td>
</tr>
<tr>
<td>145.0 Ah</td>
<td>145.0 Ah</td>
<td>136.0 Ah</td>
<td>117.0 Ah</td>
<td>1.21 &lt;p&lt; 1.24</td>
<td>261 minutes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>180.0 Ah</td>
<td>180.0 Ah</td>
<td>169.0 Ah</td>
<td>146.0 Ah</td>
<td>1.21 &lt;p&lt; 1.24</td>
<td>341 minutes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>225.0 Ah</td>
<td>225.0 Ah</td>
<td>209.0 Ah</td>
<td>181.0 Ah</td>
<td>1.21 &lt;p&lt; 1.24</td>
<td>450 minutes</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Battery parameters

- Cranking amps @ 25°C (5 sec) | 1000 A | 1450 A | 1800 A | 2250 A |
- Cycle life at 80% of D.O.D | 600 | 600 | 600 | 600 |
- Internal resistance Approx.| 7.5 mΩ | 5.0 mΩ | 6.0 mΩ | 4.0 mΩ |

Life characteristics of cyclic use

Storage characteristics

Discharge characteristics curve