CP1290 12V 9Ah(20hr)

The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special one-way valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free, leak proof and usable in any position.

Battery Construction

<table>
<thead>
<tr>
<th>Component</th>
<th>Positive plate</th>
<th>Negative plate</th>
<th>Container</th>
<th>Cover</th>
<th>Safety valve</th>
<th>Terminal</th>
<th>Separator</th>
<th>Electrolyte</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raw material</td>
<td>Lead dioxide</td>
<td>Lead</td>
<td>ABS</td>
<td>ABS</td>
<td>Rubber</td>
<td>Copper</td>
<td>Fiberglass</td>
<td>Sulfuric acid</td>
</tr>
</tbody>
</table>

General Features
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.

Performance Characteristics
- Nominal Voltage: 12V
- Number of cell: 6
- Design Life: 5 years
- Nominal Capacity 77°F(25°C): 9Ah
- Internal Resistance: 18mOhms
- Fully Charged battery 77°F(25°C): 18mOhms
- Self-Discharge: 3% of capacity declined per month at 20°C (average)
- Operating Temperature Range:
  - Discharge: -20~60°C
  - Charge: -10~60°C
  - Storage: -20~60°C
- Max. Discharge Current 77°F(25°C): 135A(5s)
- Short Circuit Current: 450A
- Cycle use: 14.5-14.9V
- Maximum charging current: 3.6A
- Temperature compensation: -30mV/oC
- Standby use: 13.6-13.8V
- Temperature compensation: -20mV/oC
- Temperature compensation: -20mV/oC
- Discharge Constant Current (Amperes at 77°F25°C)
- Discharge Constant Power (Watts at 77°F25°C)

Dimensions and Weight

- Length(mm / inch): 151 / 5.94
- Width(mm / inch): 65 / 2.56
- Height(mm / inch): 94 / 3.70
- Total Height(mm / inch): 100 / 3.94
- Approx. Weight(Kg / lbs): 2.5 / 5.51 ±%5
Self-discharge characteristic
Life characteristics of Standby use
Cycle service life in relation to depth of discharge

Discharge characteristic (25°C)
Constant voltage charging characteristic (0.25CA, 25°C)

Relationship between charging voltage and temperature
Self-discharge characteristic

Life characteristics of Standby use
Cycle service life in relation to depth of discharge

Temperature effects on float life
Temperature effects on capacity

Testing conditions: floating voltage 2.27 to 2.30V Cell
ambient temperature: 25°C (77°F)

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