CT12-55X  12V55Ah(10hr)

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.
- Case and cover available in both standard and flame retardant ABS.

Performance Characteristics

Nominal Voltage 12V  
Number of cell 6  
Design Life 10 years  
Nominal Capacity 77°F(25°C)  
10 hour rate (5.5A, 10.8V) 55Ah  
5 hour rate (10.3A, 10.5V) 51.5Ah  
1 hour rate (35.5A, 9.6V) 35.5Ah  
Internal Resistance  
Fully Charged battery 77°F(25°C) ≤ 8mOhms  
Self-Discharge 2% of capacity declined per month at 20°C (average)  
Operating Temperature Range  
Discharge -20~60°C  
Charge -10~60°C  
Storage -10~60°C  
Max. Discharge Current 77°F(25°C) 500A(5s)  
Short Circuit Current 1250A  
Charge Methods: Constant Voltage Charge 77°F(25°C)  
Cycle use 2.40-2.45VPC  
Maximum charging current 16.5A  
Temperature compensation -30mV/°C  
Standby use 2.20-2.30VPC  
Temperature compensation -20mV/°C  

Dimensions and Weight

Length(mm / inch) 277 / 10.9  
Width(mm / inch) 106 / 4.17  
Height(mm / inch) 229 / 9.02  
Total Height(mm / inch) 243 / 9.57  
Approx. Weight(Kg / lbs) 16.8/ 37.0  

Weight deviation: ± 3%*  
(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values. All data shall be changed without notice; Vision reserves the right to explain and update the information contained hereinto.