Exide Industries Limited is the largest storage battery manufacturer in the country and has pioneered battery technology in India for over 70 years. Exide now offers its latest series of Gel Tubular VRLA batteries in high grade pure polypropylene co-polymer container for critical standby application in arduous condition.

### APPLICATIONS
- Metro Railways
- Telecommunication
- Solar
- Data Centre
- Substations
- UPS System
- Power Plant
- Oil & Gas Pipelines

### UNIQUE FEATURES
1. Positive Plate Robust Torr Tubular spine with low maintenance Pb-Ca-Sn alloy
2. Negative Plate: Pb-Ca-Sn alloy grid providing low corrosion and maintenance free characteristics
3. Separator: Micro-porous and resin based separators with high porosity and low electrical resistance
4. Electrolyte: Sulphuric acid in immobilized gelled form specially made by mixing thixotropic inert additives
5. Container and Lid: Made of high grade polypropylene co-polymer material
6. Valve: Flame arresting vent plug housing long life rubber safety valve-explosion proof, self sealing and pressure regulating type
7. Terminal: Specially designed for sustained high current discharges
8. Connector: Lead coated solid copper connector with insulating shroud/top cover
9. 2V cells are housed in stackable MS modules (8V)
10. 2V cells can be supplied in MS cabinet also (fitted with suitable exhaust system) in 48 V configuration on demand ideal for outdoor applications

### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Type of Battery</th>
<th>Nominal Voltage (V)</th>
<th>Capacity @ 10 hr/1.25V (Ah)</th>
<th>Weight (Kg)</th>
<th>Module Dimension (8V) (With Top Cover/Shroud)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PG 200</td>
<td>2</td>
<td>200</td>
<td>101</td>
<td>L=730, D=468, H=212</td>
</tr>
<tr>
<td>PG 300</td>
<td>2</td>
<td>300</td>
<td>121</td>
<td>L=730, D=517, H=212</td>
</tr>
<tr>
<td>PG 400</td>
<td>2</td>
<td>400</td>
<td>133</td>
<td>L=730, D=517, H=212</td>
</tr>
<tr>
<td>PG 500</td>
<td>2</td>
<td>500</td>
<td>157</td>
<td>L=730, D=517, H=212</td>
</tr>
<tr>
<td>PG 600</td>
<td>2</td>
<td>600</td>
<td>181</td>
<td>L=730, D=520, H=260</td>
</tr>
</tbody>
</table>

### COMMISSIONING CHARGE

When commissioning a new battery (first charge), follow procedure a) or b) Procedure a) is recommended.

a) IU method (boost charge):
   At a raised voltage of 2.33-2.40 vpc, the charging time will be 12 to 24 hours depending on the initial charge condition. The current must be limited to 0.2C10

b) Float charge:
   With a voltage of 2.27 vpc, full capacity will be obtained after a longer period of 4 to 6 weeks depending on the state of charge.

### CHARGING CHARACTERISTICS DURING OPERATIONS:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Recommended</th>
<th>Min. Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Float Voltage</td>
<td>2.27 VPC</td>
<td>2.27 VPC</td>
</tr>
<tr>
<td>Boost Voltage</td>
<td>2.4 VPC</td>
<td>2.35 VPC</td>
</tr>
<tr>
<td>Equalizing Voltage</td>
<td>2.3 VPC</td>
<td>NA</td>
</tr>
<tr>
<td>Recharge Factor</td>
<td>105%</td>
<td>105%</td>
</tr>
<tr>
<td>Charging Current</td>
<td>0.2C amps</td>
<td>0.06 C amps</td>
</tr>
</tbody>
</table>

C: Nominal 10hr capacity of the battery at 27°C

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