12V GEL

Range: 12V 40AH to 200AH

UNIQUE GEL TECHNOLOGY SPEICALLY DEVELOPED
FOR STAND BY APPLICATIONS.
BENEFITS

- SEALED MAINTENANCE FREE - NO TOPPING UP EVER.
- EXCELLENT DEEP DISCHARGE CAPABILITIES.
- HIGH RECHARGE EFFICIENCY.
- SUPERIOR CYCLE LIFE.
- LONG SHELF LIFE.
- LESS SENSITIVE TO TEMPERATURE.
- GREATER DESIGN LIFE - BEST VALUE FOR MONEY.
- SUPPLIED FACTORY CHARGED.

FEATURES

- RANGE: 40/75/100/150/200 Ah
- CYCLE LIFE: 80% DOD-1200 CYCLES, 50% DOD-2200 CYCLES.
- APPLICATION: DEDICATED FOR SOLAR, STAND-BY AND UPS APPLICATION.
### TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Type of Battery</th>
<th>Nominal Voltage (V)</th>
<th>Capacity @C10 upto 1.75 v.p.c at 27°C (Ah)</th>
<th>Battery Weight with Gel ± 5% (kg)</th>
<th>Overall Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>6SGL26</td>
<td>12</td>
<td>26</td>
<td>13</td>
<td>197 ± 5 mm</td>
</tr>
<tr>
<td>6SGL40</td>
<td>12</td>
<td>40</td>
<td>22</td>
<td>354 ± 5 mm</td>
</tr>
<tr>
<td>6SGL42</td>
<td>12</td>
<td>42</td>
<td>22</td>
<td>354 ± 5 mm</td>
</tr>
<tr>
<td>6SGL65</td>
<td>12</td>
<td>65</td>
<td>26</td>
<td>354 ± 5 mm</td>
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<td>6SGL75</td>
<td>12</td>
<td>75</td>
<td>38</td>
<td>531 ± 5 mm</td>
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<tr>
<td>6SGL100</td>
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<td>100</td>
<td>44</td>
<td>531 ± 5 mm</td>
</tr>
<tr>
<td>6SGL120</td>
<td>12</td>
<td>120</td>
<td>48</td>
<td>531 ± 5 mm</td>
</tr>
<tr>
<td>6SGL150</td>
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<td>150</td>
<td>64</td>
<td>533 ± 5 mm</td>
</tr>
<tr>
<td>6SGL200</td>
<td>12</td>
<td>200</td>
<td>84</td>
<td>428 ± 5 mm</td>
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</table>

**APPLICATIONS**

- **TELECOM**
- **EMERGENCY LIGHTING**
- **RURAL ELECTRIFICATION**
- **SOLAR STREET LIGHTING**
- **SOLAR HYBRID POWER SYSTEMS**
OPzV FEATURES

- Tubular Positive Plates
- High Pressure Die-Cast Spin Grid
- Electrolyte in Gel Form
- Excellent Thermal Management
- Filled and Charged
- Ready to Install
- Valve Regulated
- Versatile in Mounting
- Antimony Free Alloy

OPzV BENEFITS

- Proven Cycling & Deep Cycling Capabilities
- Rate of Grid Corrosion is Very Low
- No Stratification & No Failure Due to PSOC
- Enhancement in Life
- Ready to Use, Easier to Install
- 100% Capacity on First Discharge
- No Water Top Up During Service Life
- Can be Mounted Both in Horizontal & Vertical Orientation
- Long Shelf Life Due to Low Self-Discharge
OPzV Applications

Telecommunications
- Wireless
- Transmission
- Switching

SPV
- Rural electrification
- Hybrid power systems
- Home lighting
- Street lighting

Railways
- Railway signaling
- Telecommunication
- EPABX system
- SCADA system
<table>
<thead>
<tr>
<th>Type</th>
<th>Nominal Voltage (V)</th>
<th>Nominal Capacity C10 1.8V/C20* (Ah)</th>
<th>Discharge Current I10 (A)</th>
<th>Length (l)</th>
<th>Width (b)</th>
<th>Height (h1)</th>
<th>Height (h2)</th>
<th>Weight Approx. Kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 OPzV 250</td>
<td>2</td>
<td>250</td>
<td>25</td>
<td>126</td>
<td>208</td>
<td>360</td>
<td>398</td>
<td>23</td>
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<tr>
<td>6 OPzV 300</td>
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<td>300</td>
<td>30</td>
<td>147</td>
<td>208</td>
<td>360</td>
<td>398</td>
<td>27</td>
</tr>
<tr>
<td>5 OPzV 350</td>
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<td>350</td>
<td>35</td>
<td>126</td>
<td>208</td>
<td>475</td>
<td>513</td>
<td>30</td>
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<tr>
<td>6 OPzV 420</td>
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<td>147</td>
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<td>513</td>
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<tr>
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<td>490</td>
<td>49</td>
<td>168</td>
<td>208</td>
<td>475</td>
<td>513</td>
<td>40</td>
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<tr>
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<td>147</td>
<td>208</td>
<td>650</td>
<td>688</td>
<td>48</td>
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<tr>
<td>8 OPzV 800</td>
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<td>800</td>
<td>80</td>
<td>212</td>
<td>193</td>
<td>650</td>
<td>688</td>
<td>67</td>
</tr>
<tr>
<td>10 OPzV 1000</td>
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<td>1000</td>
<td>100</td>
<td>212</td>
<td>235</td>
<td>650</td>
<td>688</td>
<td>80</td>
</tr>
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<td>12 OPzV 1200</td>
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<td>1200</td>
<td>120</td>
<td>212</td>
<td>277</td>
<td>650</td>
<td>688</td>
<td>94</td>
</tr>
<tr>
<td>12 OPzV 1500</td>
<td>2</td>
<td>1500</td>
<td>150</td>
<td>212</td>
<td>277</td>
<td>800</td>
<td>838</td>
<td>118</td>
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<tr>
<td>16 OPzV 2000</td>
<td>2</td>
<td>2000</td>
<td>200</td>
<td>212</td>
<td>400</td>
<td>775</td>
<td>815</td>
<td>160</td>
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<tr>
<td>20 OPzV 2500</td>
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<td>2500</td>
<td>250</td>
<td>215</td>
<td>490</td>
<td>775</td>
<td>815</td>
<td>200</td>
</tr>
<tr>
<td>24 OPzV 3000</td>
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<td>300</td>
<td>215</td>
<td>580</td>
<td>775</td>
<td>815</td>
<td>240</td>
</tr>
</tbody>
</table>
2V GEL SG
Range: 2V 200Ah to 1000Ah
STANDARD BS
SG FEATURES

- **POSITIVE PLATE**: **ROBUST TORR TUBULAR SPINE** with Pb-Ca-Sn ALLOY
- **NEGATIVE PLATE**: Pb-Ca ALLOY GRID.
- **SEPARATOR**: MICRO-POUROUS and RESIN BASED with high porosity.
- **ELECTROLYTE**: SULPHURIC ACID IN IMMOBILIZED GELLED FORM specially made by mixing thixotropic inert additives.
- **CONTAINER AND LID**: MADE OF HIGH GRADE ADDITIVE FILLED POLYPROPYLENE CO-POLYMER MATERIAL.
- **VALVE**: FLAME ARRESTING VENT PLUG HOUSING LONG LIFE RUBBER SAFETY VALVE.
- **BOLT ON TERMINAL WITH**: BRASS INSERT.
- **CONNECTOR**: LEAD COATED SOLID COPPER CONNECTOR with insulating shroud/top cover.

SG APPLICATIONS

- **TELECOM**
- **POWER STATIONS**
- **RURAL ELECTRIFICATION**
- **SOLAR STREET LIGHTING**
- **SOLAR HYBRID POWER SYSTEMS**
SG BENEFITS

- **RUGGED AND RELIABLE FOR CYCLE APPLICATION. IDEAL FOR FREQUENT DISCHARGE-CHARGE CYCLE.**
- **LOW CORROSION, VERY LOW SELF DISCHARGE, NO WATER TOPPING UP.**
- **LOW ELECTRICAL RESISTANCE, HIGH CHARGING EFFICIENCY. RESISTIVE TO ANY MALFUNCTION DUE TO SEPARATOR DAMAGE DURING OPERATION.**
- **NO ACID STRATIFICATION, LONGER CYCLE LIFE AND ALLOWS RECOMBINATION OPERATION.**
- **LOW FOOTPRINT, CELLS ARE HOUSED IN STACKABLE MS MODULES (BV)**
- **EXPLOSION PROOF, SELF RESEALING, PRESSURE REGULATING AND CAN BE USED SAFELY IN HIGH AMBIENT TEMPERATURE ZONE.**
- **SPECIALY DESIGNED TO SUSTAIN HIGH CURRENT DISCHARGE AND MECHANICAL RUGGEDNESS.**
- **GOOD INSULATION, SAFE AND RELIABLE.**

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RECHARGING CHARACTERISTICS DURING OPERATION

Recommended Parameters for ambient temperature of -25°C to +55°C

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charging Current</td>
<td>Maximum 20% of the battery Ah capacity</td>
</tr>
<tr>
<td></td>
<td>Minimum 10% of the battery Ah capacity</td>
</tr>
<tr>
<td>Bulk Voltage</td>
<td>2.37 ± 0.02 V/Cell</td>
</tr>
<tr>
<td>Float Voltage</td>
<td>2.27 ± 0.02 V/Cell</td>
</tr>
<tr>
<td>Equalizing Voltage</td>
<td>2.30 ± 0.02 V/Cell</td>
</tr>
<tr>
<td>Load Reconnect Voltage</td>
<td>2.10 ± 0.02 V/Cell</td>
</tr>
<tr>
<td>Low Voltage Disconnect</td>
<td>1.85 ± 0.02 V/Cell</td>
</tr>
</tbody>
</table>