**Features & Benefits**

- **APPLICATIONS**
  - Wireline
  - Wireless
  - Customer Premise / PBX
  - Broadband
  - Microwave Repeater
  - Fiber Optic Regen Sites

- **INDOOR/OUTDOOR INSTALLATIONS**
  - Cabinet Systems
  - Rack Systems

- Long life alloy and design Telcordia certified exceeding 13 years service life
- Tested and qualified by Telcordia to meet SR-4228 requirements
- True Front Access threaded copper alloy inserts for reduced maintenance and increased safety
- Terminal versatility - ease of diagnostic readings with Ohmic Ring®
- Reduced headspace driving higher energy density, in cabinet or rack applications
- Removable handles for ease of installation
- Innovative front terminal design maximizing energy density with direct connect extrusion fusion weld technology
- Thermally welded case-to-cover bond to ensure a leak-proof seal
- Flame-retardant polypropylene case and cover compliant with UL94 V-O with an Oxygen Limiting Index of greater than 28
- Absorbent Glass Mat (AGM) technology for 99% plus efficient gas recombination
- Flame-arresting, one-way pressure-relief vent for safety and long life
- Complies with UL1778, 924, 1989 and 94 V-O, BS6290PT4, IEC-896-2
- UL-recognized component
- Multicell design for ease of installation and maintenance
- Fits many popular OEM cabinets
- Not restricted for air transport - Complies with IATA/ICAO Special Provision A67
- Not restricted for surface transport - classified as non-hazardous material as related to DOT-CFR Title 49 parts 17 1-189
- Not restricted for water transport - classified as non-hazardous material per Amendment 27

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**Ampere Hour Capacity to 1.75 Volts per Cell @ 77°F (25°C)**

<table>
<thead>
<tr>
<th>Discharge in Hours</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>20</th>
<th>24</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEL12-145FW</td>
<td>93.9</td>
<td>105.2</td>
<td>117.6</td>
<td>122.4</td>
<td>131.5</td>
<td>144.8</td>
<td>148</td>
<td>151.2</td>
<td>158.8</td>
<td>160.8</td>
</tr>
</tbody>
</table>

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**THE MOMENT OF TRUTH HAS ARRIVED**

**TRUE** Performance - Proven out of box capacity ratings at installation

**TRUE** Front Access Terminals - ensuring reliability & connection versatility

**TRUE** High Energy Density - highest true energy density solution in the market

**TRUE** Long Life Design - Telcordia SR-4228 industry leading 13 year service life
### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Battery</th>
<th>Voltage Per Unit</th>
<th>Ampere Hour Capacity 8 Hour Rate @ 77°F (25°C) to 1.75 v/c</th>
<th>Ampere Hour Capacity 10 Hour Rate @ 68°F (20°C) to 1.80 v/c</th>
<th>Maximum Discharge Current</th>
<th>Short Circuit Current</th>
<th>Ohms Impedance 60 Hz</th>
<th>Battery Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEL12-145FW</td>
<td>12 V</td>
<td>145 Ah</td>
<td>143 Ah</td>
<td>800 Amperes</td>
<td>5800 Amperes</td>
<td>0.0026 Ohms</td>
<td>105 lbs/48 kg</td>
</tr>
</tbody>
</table>

**Operating Temperature Range with temperature compensation**
- Discharge: -40°F (-40°C) to +160°F (71°C)
- Charge: -10°F (-23°C) to +140°F (60°C)

**Nominal Operating Temperature Range**
+74°F (23°C) to +80°F (27°C)

**Recommended Maximum Charging Current Limit**
C20/5 Amperes (31.8A)

**Float Charging Voltage**
13.5 to 13.8 VDC average per 12V unit

**Maximum AC Ripple (Charger)**
0.5% RMS or 1.5% P-P of float charge voltage recommended for best results. Maximum AC ripple voltage allowed = 1.4% RMS (C20/20)

**Self Discharge**
Battery can be stored up to 6 months at 77°F (25°C) before a freshening charge is required. Batteries stored at temperatures greater than 77°F (25°C) will require recharge sooner than batteries stored at lower temperatures. See C&D bulletin 41-7272, Self-Discharge and Inventory Control for details.

**Equalize charge and cycle service voltage**
14.40 to 14.80 VDC average per 12V unit @ 77°F (25°C)

**Terminal: Inserted - Inter-unit connector and hardware provided**
Threaded copper alloy insert terminal to accept M6 bolt

**Terminal Hardware Torque**
110 in.-lbs. (12.4 N-m)

### CONSTANT CURRENT RATINGS - AMPERES @ 77°F (25°C)

#### Operating Time (hours)

<table>
<thead>
<tr>
<th>Volts Per Cell</th>
<th>1</th>
<th>3</th>
<th>5</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>20</th>
<th>24</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.75</td>
<td>93.6</td>
<td>40.6</td>
<td>26.6</td>
<td>18.1</td>
<td>15</td>
<td>12.8</td>
<td>8.1</td>
<td>6.8</td>
</tr>
<tr>
<td>1.80</td>
<td>89.3</td>
<td>36.8</td>
<td>26.3</td>
<td>17.9</td>
<td>14.9</td>
<td>12.6</td>
<td>8.6</td>
<td>6.8</td>
</tr>
<tr>
<td>1.85</td>
<td>82.6</td>
<td>37.9</td>
<td>25.4</td>
<td>17.4</td>
<td>14.5</td>
<td>12.4</td>
<td>7.9</td>
<td>6.7</td>
</tr>
<tr>
<td>1.88</td>
<td>76.3</td>
<td>35.8</td>
<td>24.1</td>
<td>16.4</td>
<td>13.7</td>
<td>11.7</td>
<td>7.4</td>
<td>6.3</td>
</tr>
<tr>
<td>1.90</td>
<td>71.5</td>
<td>33.9</td>
<td>22.9</td>
<td>15.7</td>
<td>13.1</td>
<td>11.2</td>
<td>7.2</td>
<td>6.1</td>
</tr>
</tbody>
</table>

Additional ratings and application information is available in the Battery Selection Program at www.cdstandbypower.net

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**Dimensions:**
- A in mm: 15.4, 391
- B in mm: 15.5, 418
- C in mm: 16.9, 430
- D in mm: 15.2, 387
- E in mm: 9.7, 247
- F in mm: 10.1, 257
- G in mm: 6.4, 163
- H in mm: 6.3, 161

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*All dimensions in inches and (millimeters). All dimensions are for reference only. Contact a C&D Representative for complete dimensions information.*

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