## Electrical Characteristics

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of networks</td>
<td>Photovoltaic - DC side</td>
</tr>
<tr>
<td>Number of poles / Type of current</td>
<td>3 / DC</td>
</tr>
<tr>
<td>Type / Test class</td>
<td>UL 1449 3rd Ed. - Type 1</td>
</tr>
<tr>
<td>Number of poles / Type of current</td>
<td>IEC 61 643-11 - T2 / II</td>
</tr>
<tr>
<td>Maximum continuous operating voltage (U&lt;sub&gt;cpv&lt;/sub&gt;)</td>
<td>800 V</td>
</tr>
<tr>
<td>Voltage protection level (U&lt;sub&gt;res&lt;/sub&gt; @ 3kA/5kA/10kA; L+/G, L-/G, L+/L-)</td>
<td>3.4 / 3.6 / 4.0</td>
</tr>
<tr>
<td>Voltage protection rating VPR (L+/G, L-/G, L+/L-)</td>
<td>4.0 / 4.0 / 4.0</td>
</tr>
<tr>
<td>Nominal discharge current (I&lt;sub&gt;n&lt;/sub&gt; @ 8/20)</td>
<td>5 kA</td>
</tr>
<tr>
<td>Maximum discharge current (I&lt;sub&gt;max&lt;/sub&gt; @ 8/20)</td>
<td>15 kA</td>
</tr>
<tr>
<td>Follow current interrupt rating (I&lt;sub&gt;fi&lt;/sub&gt;)</td>
<td>A</td>
</tr>
<tr>
<td>Response time</td>
<td>ns</td>
</tr>
<tr>
<td>Ground residual current (I&lt;sub&gt;g&lt;/sub&gt;)</td>
<td>&lt; 25 µA</td>
</tr>
<tr>
<td>Short circuit withstand (I&lt;sub&gt;sw&lt;/sub&gt;)</td>
<td>10 kA</td>
</tr>
<tr>
<td>Integrated thermal disconnector</td>
<td>Yes</td>
</tr>
<tr>
<td>State indicator</td>
<td>Yes</td>
</tr>
<tr>
<td>Safety reserve</td>
<td>No</td>
</tr>
<tr>
<td>Remote indicator</td>
<td>No</td>
</tr>
<tr>
<td>Overcurrent protection ⊗</td>
<td>Not required</td>
</tr>
<tr>
<td>Circuit breaker - B or C curve</td>
<td>Not required</td>
</tr>
<tr>
<td>Class J fuse</td>
<td>Not required</td>
</tr>
</tbody>
</table>

注: UL approved without overcurrent protection. If continuity of service is preferred, a 10A g<sub>p</sub> fuse is recommended.

## Mechanical Characteristics

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire range - solid wire</td>
<td>AWG 4-14</td>
</tr>
<tr>
<td>Wire range - stranded wire</td>
<td>AWG 6-14</td>
</tr>
<tr>
<td>Stripping length</td>
<td>in 0.5</td>
</tr>
<tr>
<td>Tightening torque</td>
<td>in-lbs 24.5</td>
</tr>
</tbody>
</table>

## Remote Indicator

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of contact</td>
<td>-</td>
</tr>
<tr>
<td>Minimum load</td>
<td>-</td>
</tr>
<tr>
<td>Maximum load</td>
<td>-</td>
</tr>
<tr>
<td>Connection cross section</td>
<td>AWG -</td>
</tr>
</tbody>
</table>

## Miscellaneous Characteristics

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree of protection</td>
<td>NEMA 1 / IP 20</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-40° to 176°</td>
</tr>
<tr>
<td>Maximum relative humidity</td>
<td>93%</td>
</tr>
<tr>
<td>Maximum altitude</td>
<td>6562 ft</td>
</tr>
<tr>
<td>Weight</td>
<td>0.75 lb</td>
</tr>
<tr>
<td>Color of housing / Fire resistance according to UL 94</td>
<td>Gray RAL 7035 / V-0</td>
</tr>
<tr>
<td>Reference standards</td>
<td>UL 1449 3rd Ed / IEC 61 643-11 / UTE C 61-740-51</td>
</tr>
</tbody>
</table>

## Replacement Cartridges

| Phase     | OVRPV15800CU       |

ABB
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Web: www.abb.us/lowvoltage