Type 2 PV SPD's have characteristics of type 2, they are capable of discharging indirect lightning strikes causing induced or conducted overvoltages generally from earth to the Panel they have a low residual voltage (Up), which is compatible with the withstand voltage of the Panel and the PV Inverter. Higher is the $I_{\text{max}}$, more powerful they are. They are installed inside the string/combiner boxes but also inside the PV Inverter.

If the announced residual voltage (Up) is not compatible with the withstand voltage of the equipment to protect or if the cable length to the equipment is longer than 10m, another level of coordination with another OVR PV T2 will be needed.

- Din rail mounting
- No back up protection required
- Pro M compact design
- High performance
- 3 MOV varistors (L+/L-; L+/PE; L-/PE)
- Special "High d.c voltage" design

**Key characteristics**

<table>
<thead>
<tr>
<th>Protection mode</th>
<th>L/L-LPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of protected lines</td>
<td>2</td>
</tr>
<tr>
<td>Test class</td>
<td>II</td>
</tr>
<tr>
<td>Integrated thermal disconnector</td>
<td>Yes</td>
</tr>
<tr>
<td>End of life indicator</td>
<td>Yes</td>
</tr>
<tr>
<td>Safety reserve</td>
<td>No</td>
</tr>
</tbody>
</table>

**Electrical characteristics**

- Nominal discharge current ($I_{\text{dc}}$) (8/20) kA 15
- Maximal discharge current ($I_{\text{max}}$) (8/20) kA 40
- Impulse current ($I_{\text{imp}}$) (10/350) kA 2
- Maximal continuous operating voltage $U_{CPV}$ (L-L) kV 1500
- Voltage protection level at In $U_{\text{CPV}}$ (L-L) kV 4,5
- Voltage protection level at In $U_{\text{P}}$ (L-PE) kV 4,5
- Voltage protection rating according $U_{\text{P}}$ (L-G, L-/G, L+/L-) kV 4,5 / 4,5 / 4,5
- Short circuit current $I_{\text{SC}}$ kA 40
- Short circuit withstand according $I_{\text{SC}}$ kA 1
- Ground residual current $I_{\text{G}}$ µA < 10
- Required thermal/back up protection Curve B or C Circuit breaker Yes / -
- gA - gl. fuse Yes / -

**Mechanical characteristics**

- Dimensions H x W x D mm 95 x 53,4 x 58
- Wire range : Solid wire mm² 2.5…25
- Wire range : Stranded wire mm² 2.5…16
- Stripping length mm 12,6
- Packing quantities piece 1

**Miscellaneous characteristics**

- Maximal altitude m 71 / 2 000 / 6 562
- Weight g / P 300 / 0,75
- Response time s 25
- Fire resistance according to UL 94 V-0

**Phase / Product ID**

- OVR PV 40-1500 ED 2CTB803950R2000

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