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 Imax, more powerful they are. They are installed inside the connection/string boxes but also near 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.

- Certified to latest UL 1449 4ed and according to EN 50539-11
- No back up protection required up to Iscpv/SCCR : 10 kA
- Bottom wiring
- Patented QuickSafe technology
- 3 MOV varistors (L+/L-; L+/PE; L-/PE)

Key characteristics
- Protection mode: L+/PE
- Number of protected lines: 4
- Test class: II / 1 C.A
- Integrated thermal disconnector: Yes
- End of life indicator: Yes
- Safety reserve: No

Electrical characteristics
- Nominal discharge current: \( I_{\text{n}} (8/20) \) kA: 10
- Impulse current: \( I_{\text{imp}} (10/350) \) kA: 2
- Maximal continuous operating voltage: \( U_{\text{op}} (L-L) \) V: 1500
- Voltage protection level at \( I_{\text{n}} \) (L-PE): \( U_{\text{CPV}} \) V: 1000
- Voltage protection level at In: \( U_{\text{CPV}} (L-L) \) V: 4,2
- Voltage protection rating according to EN 50539-11: \( U_{\text{CPV}} (L+G, L-/G, L+L-) \) V: 4,7 / 4,7
- Short circuit withstand according to EN 50539-11: \( S_{\text{CCR}} \) kA: 10
- Ground residual current: \( I_{\text{PE}} \) μA: < 1000

Required thermal/back up protection
- Curve B or C Circuit breaker: A
- gG - gl fuse: A
- Comments: If Iscpv > 10kA : 10A g PV

Mechanical characteristics
- Dimensions: \( H \times W \times D \) mm: 99x52x458
- Wire range: Solid wire: min / max: 2.5 … 35 / 2 … 14
- Wire range: Stranded wire: min / max: 2.5 … 25 / 4 … 14
- Stripping length: 12,5 / 5,5
- Packing quantities: piece: PD 1
- Weight: g / lb: 365 / 0,79
- Response time: ms: < 25
- Fire resistance according to UL 94: V-0

Miscellaneous characteristics
- Maximal altitude: m / ft: 2000 / 6 562
- Required thermal/back up protection: Curve B or C Circuit breaker: A
- gG - gl fuse: A
- Comments: If Iscpv > 10kA : 10A g PV

Characteristics
- Dimensions: \( H \times W \times D \) mm: 99x52x458
- Wire range: Solid wire: min / max: 2.5 … 35 / 2 … 14
- Wire range: Stranded wire: min / max: 2.5 … 25 / 4 … 14
- Stripping length: 12,5 / 5,5
- Packing quantities: piece: PD 1
- Weight: g / lb: 365 / 0,79
- Response time: ms: < 25
- Fire resistance according to UL 94: V-0
- Required thermal/back up protection: Curve B or C Circuit breaker: A
- gG - gl fuse: A
- Comments: If Iscpv > 10kA : 10A g PV

Installation
- Diagram
- PD1-PD2
- Top wiring
- Bottom wiring

ABB