




Type
T2

I_{max} : 40 kA

U_p : 3,8 kV
System
PV : 1100 V d.c

EN 50539-11




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 (U_p), which is compatible with the withstand voltage of the panel and the PV Inverter.

Higher is the I_{max}, more powerful they are. They are installed inside the connection/string boxes but also near the PV Inverter.

If the announced residual voltage (U_p) 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 last UL 1449 4ed and according to EN 50539
- No back up protection required up to I_{scpv}/SCCR : 10 kA
- Bottom wiring
- Patented QuickSafe technology
- 3 MOV varistors (L+/L-; L+/PE; L-/PE)



Key characteristics	
Protection mode	L-L/L-PE
Number of protected lines	2
Test class	II / T.C.A
Integrated thermal disconnecter	Yes
End of life indicator	Yes
Safety reserve	No
Electrical characteristics	
Nominal discharge current	I _n (8/20) kA 20
Maximal discharge current	I _{max} (8/20) kA 40
Impulse current	I _{imp} (10/350) kA 2
Maximal continuous operating voltage	U _{CPV} (L-L) V 1100
Maximal continuous operating voltage according to 	MCOV V 1100
Voltage protection level at I _n	U _p (L-PE) kV 3,8
Voltage protection level at I _{imp}	U _p (L-L) kV 3,8
Voltage protection rating according to 	VPR (L+/G, L-/G, L+/L-) kV 2.5 / 2.5 / 2.5
Short circuit current	I _{SCPV} kA 10
Short circuit withstand according to 	SCCR kA 10
Ground residual current	I _{FE} μA < 10
Required thermal/back up protection	
Curve B or C Circuit breaker	A -
gG - gL fuse	A -
Comments	
Mechanical characteristics	
Dimensions	H x W x D mm 88x53.4x58
Wire range : Solid wire	mm ² 2.5 ... 35
Wire range : Stranded wire	mm ² 2.5 ... 25
Stripping length	mm 12,5
Packing quantities	piece Per 1
Miscellaneous characteristics	
Maximal altitude	m 2000
Weight	g 360
Response time	ns < 25
Fire resistance according to UL 94	V-0
Replacement cartridges	
Phase / Product ID	OVR PV T2 40-1000 C QS 2CTB804153R3200
Neutral / Product ID	- -

CHARACTERISTICS

