




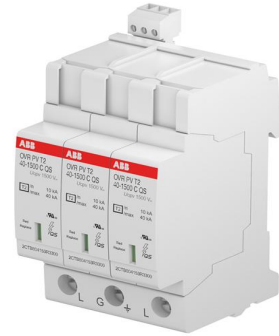
Type
<b>UL : Type 1 CA</b> <b>IEC : Type 2</b>

<b>I<sub>max</sub> : 40 kA</b>

<b>U<sub>p</sub> : 4,2 kV</b>
System
<b>PV : 1500 V d.c</b>

<b>EN 50539-11</b> <b>UL 1449 4 ed</b>

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<sub>p</sub>), which is compatible with the withstand voltage of the panel and the PV Inverter.

Higher is the I<sub>max</sub>, more powerful they are. They are installed inside the connection/string boxes but also near the PV Inverter.

If the announced residual voltage (U<sub>p</sub>) 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 I<sub>scpv</sub>/SCCR : 10 kA
- Bottom wiring
- Patented QuickSafe technology
- 3 MOV varistors (L+/L-; L+/PE; L-/PE)



<b>CHARACTERISTICS</b>	<b>Key characteristics</b>			
	Protection mode	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		
	<b>Electrical characteristics</b>			
	Nominal discharge current	I <sub>n</sub> (8/20)	kA	10
	Maximal discharge current	I <sub>max</sub> (8/20)	kA	40
	Impulse current	I <sub>imp</sub> (10/350)	kA	2
	Maximal continuous operating voltage	U <sub>CPV</sub> (L-L)	V	1500
	Maximal continuous operating voltage according	MCOV	V	1500
	Voltage protection level at I <sub>n</sub>	U <sub>p</sub> (L-PE)	kV	4,2
	Voltage protection level at I <sub>n</sub>	U <sub>p</sub> (L-L)	kV	4,2
	Voltage protection rating according	VPR (L+/G, L-/G, L+/L-)	kV	4 / 4 / 4
	Short circuit current	I <sub>SCPV</sub>	kA	10
	Short circuit withstand according	SCCR	kA	10
	Ground residual current	I <sub>FE</sub>	µA	< 1000
	<b>Required thermal/back up protection</b>			
	Curve B or C Circuit breaker	A	-	-
	gG - gL fuse	A	-	-
	Comments	If I <sub>scpv</sub> > 10kA : 10A g PV		
	<b>Mechanical characteristics</b>			
	Dimensions	H x W x D	mm	95x53.4x58
Wire range : Solid wire	mm <sup>2</sup> / AWG	2.5 ... 35 / 2...14		
Wire range : Stranded wire	mm <sup>2</sup> / AWG	2.5 ... 25 / 4...14		
Stripping length	mm / inch	12.5 / 0.5		
Packing quantities	piece	Per 1		
<b>Miscellaneous characteristics</b>				
Maximal altitude	m / ft	2 000 / 6 562		
Weight	g / lb	360/0.75		
Response time	ns	< 25		
Fire resistance according to UL 94	V-0			
Replacement cartridges				
Phase / Product ID	OVR PV T2 40-1500 C QS	2CTB804153R3300		
Neutral / Product ID	-	-		

