

OVR PV T2 40-600 P TS QS**2CTB804153R2900**

03/06/2016

Type

T2

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.

 **I_{max} : 40 kA**

Higher is the I_{max} , more powerful they are.

They are installed inside the connection/string boxes but also near the PV Inverter.

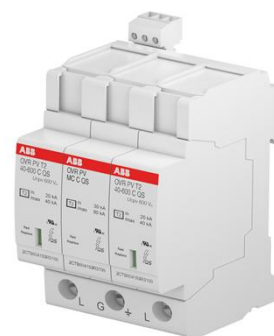
 **U_p : 1,5 kV**

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.

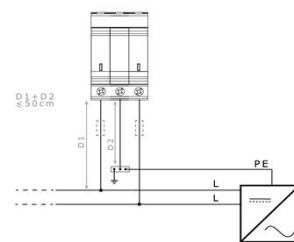
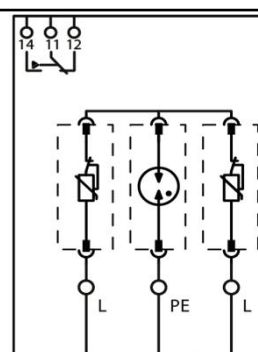
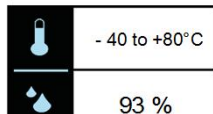
System

PV : 600 V d.c**EN 50539-11
UL 1449 4 ed**

- Certified to last UL 1449 4ed and according to EN 50539
- No back up protection required up to 300 A
- Bottom wiring
- Patented QuickSafe technology
- 2 MOV varistors (L+/L-) and GDT (G)

**CHARACTERISTICS**

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	600
Maximal continuous operating voltage according $\text{\textcircled{U}}$	MCOV	V	600
Voltage protection level at I_n	U_p (L-PE)	kV	1,5
Voltage protection level at I_n	U_p (L-L)	kV	2,8
Voltage protection rating according $\text{\textcircled{U}}$	VPR (L+/G, L-/G, L+/L-)	kV	1,2 / 1,2 / 1,8
Short circuit current	I_{SCP}	kA	0,3
Short circuit withstand according $\text{\textcircled{U}}$	S_{CCR}	kA	10
Ground residual current	I_{PE}	μ A	< 10
Required thermal/back up protection			
Curve B or C Circuit breaker		A	-
gG - gL fuse		A	-
Comments	If I_{SCP} > 300 A 10 A g PV		
Mechanical characteristics			
Dimensions	H x W x D	mm	95x53.4x58
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 40-600 C QS	2CTB804153R3100	
Neutral / Product ID	OVR PV MC C QS	2CTB804153R3500	

INSTALLATION**PD1-PD2****DIAGRAM****IP20**

- 40 to +80°C

93 %



2,8 N.m

min: 12 Vdc/10mA
max: 250 Vac/1A