

# OVR PV T2 40-1500 P TS

## Surge Protective Devices



Type 2 SPDs for Photovoltaic applications are capable of discharging the lightning currents within an electrical system resulting from indirect lightning events. They have effective voltage protection ratings keeping damaging voltage peaks from exceeding the withstand voltages of the protected equipment.

### Application

They are typically installed inside the string/combiner boxes or inside the PV Inverter. Additional PV SPDs may be required for an optimal protection if cable lengths between SPDs are greater than 32ft.

### Technical specifications and standards

#### Key features

Protection mode	DC+ to DC- / DC+ to G / DC- to G
Number of protected lines	2
End of life indicator	Green = functional / Red = replace
Technology	Thermally protected varistor

#### Electrical performances

Maximal discharge current	$I_{max} (8/20\mu s)$	40	kA
Nominal discharge current	$I_n (8/20\mu s)$	15	kA
Maximal continuous operating voltage	UCPV	1500	VDC
Intended power system application (UL)	VPVDC	1500	VDC
Voltage protection level	$U_p (DC+ to DC- / DC+ to G / DC- to G)$	5	kV
Voltage protection rating (UL)	VPR	4	kV
Surge circuit current rating	$I_{scpv}$	10	kA
Surge circuit current rating (UL)	SCCR	10	kAIC
Back up protection		Not needed up to $I_{scpv}$	
Leakage current	$I_{cpv}, I_{pc}$	Check Installation Leaflet	
Response time		< 25	ns



Type 2 / UL Type 1 C.A



$I_{max} : 40 \text{ kA}$



$U_p < 5 \text{ kV}$



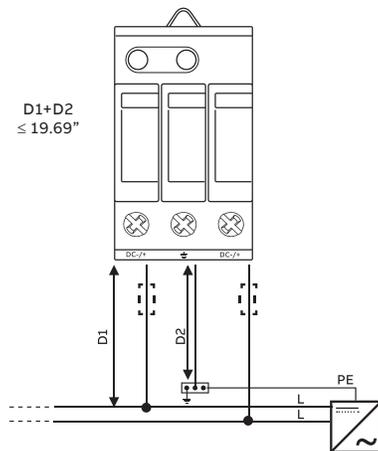
IEC 61643-31  
UL 1449 5th ed

<b>Mechanical features</b>			
Dimensions	L x W x D	3.54 x 2.12 x 2.87	in
Max. Solid/ Stranded wire (max)		4 - 2	AWG
Tightening torque		35.4	lbs
Maximal altitude		6561	ft
Operating temperature		-40 to +176	F
Relative humidity		95 (non condensing)	%HR
Degree of protection		IP 20	
Enclosure material rating and color		UL 94 V-0 / Grey RAL 7035	
Weight		.72	lbs

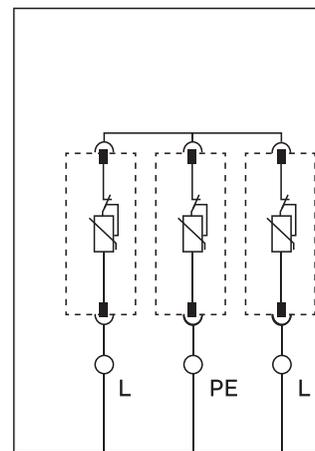
<b>Replacement cartridge</b>		
Product ID / Model no	OVR PV T2 40-1500 C	2CTB802402R1500

<b>Auxiliary contact (TS)</b>			
Contacts information			1 NO - 1 NC
Min. & Max load d.c		250 V /0.1 A; 125 V /0.2 A; 75 V /0.5 A	
Connection cross-section max		16	AWG
Tightening torque		1.77	lbs

#### Installation wiring



#### Internal diagram



#### Physical dimensions

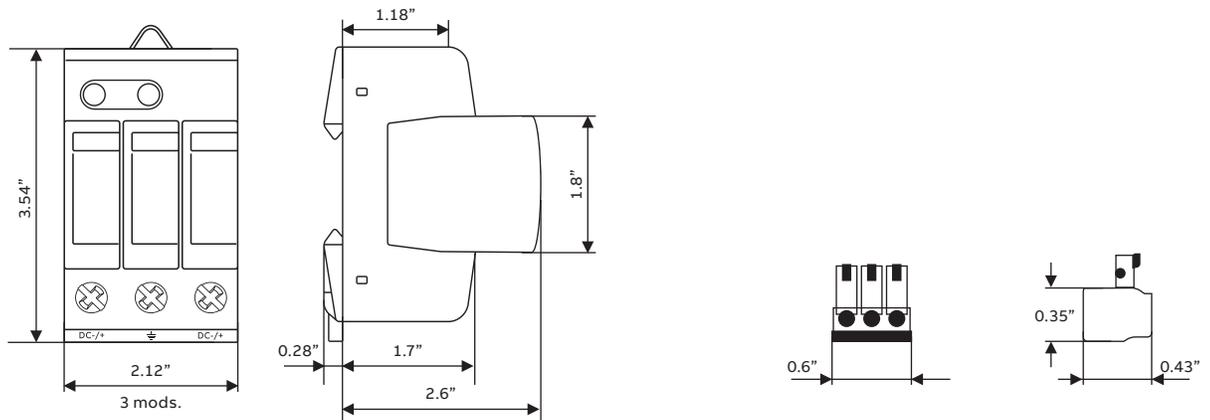


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