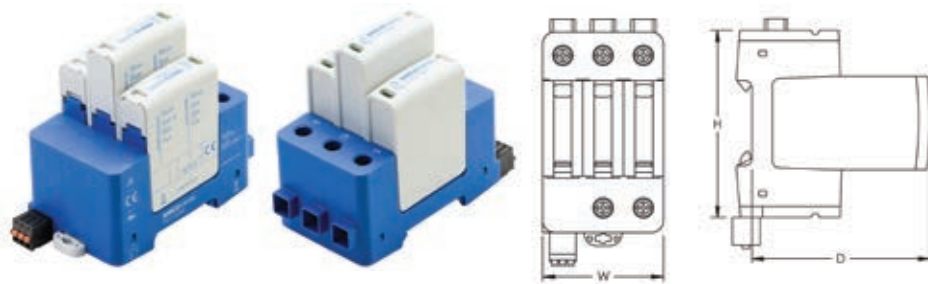


# PVT1 PHOTOVOLTAIC SURGE PROTECTION CLASS I

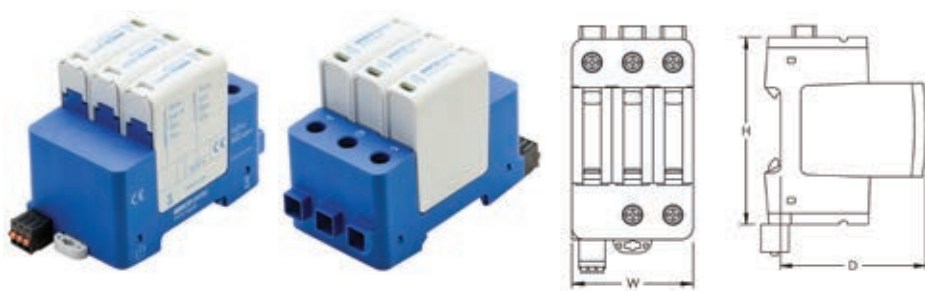


## FEATURES

- Uniquely designed for protection of centralized solar inverters on the DC input side and string boxes
- Thermal protection included to ensure safe failure modes
- Compact, yet high surge rated pluggable design, using minimum DIN rail width

Part Number	PVT11000R	PVT11500R
Max Continuous Operating Voltage ( $U_{cpv}$ )	1,100 V	1,500 VDC
Nominal Discharge Current ( $I_n$ ), IEC	20 kA 8/20 $\mu$ s	
Impulse Current ( $I_{imp}$ )	6.25 kA 10/350 $\mu$ s	5.00 kA 10/350 $\mu$ s
Total Discharge Current ( $I_{total}$ )	12.5 A 10/350 $\mu$ s, 50.0 kA 8/20 $\mu$ s	10.0 A 10/350 $\mu$ s, 40.0 kA 8/20 $\mu$ s
Voltage Protection Level ( $U_p$ )	4,000 V	5,000 V
Response Time	25 ns Max	
Short Circuit Current Rating ( $I_{SCCR}$ )	11 kA	
Max Continuous Operating Voltage ( $V_{pVDC}$ )	1,100 VDC	1,500 VDC
Voltage Protection Rating (VPR)	2,500 V	4,000 V
Nominal Discharge Current ( $I_n$ ), UL	20 kA 8/20 $\mu$ s	
Short Circuit Current Rating (SCCR)	50 kA	65 kA
Protection Modes	-ve to PE, -ve to +ve, +ve to PE	
Altitude	6,562' / 2,000 m Max	
Humidity	5 – 95 % RH	
Temperature	-40 to 185 °F / -40 to 85 °C	
Connection, Flexible	#4 / 25 mm <sup>2</sup>	
Connection, Solid	#2 / 35 mm <sup>2</sup>	
Connection, Stranded	#2 / 35 mm <sup>2</sup>	
Enclosure Material	UL® 94V-0 Thermoplastic	
Enclosure Rating	IP 20	
Mounting	35 mm top hat DIN rail	
Torque (TQ)	3.3 ft lb / 4.5 N-m Max	
Remote Contact Switching Capacity	1.0 A @ 125 VAC, 1.0 A @ 250 VAC, 0.5 A @ 12 VDC, 0.5 A @ 24 VDC, 0.5 A @ 48 VDC	
Remote Contacts	Yes	
Status Indication	Mechanical flag	
Unit Weight	1.02 lb / 0.46 kg	1.10 lb / 0.5 kg
Certification Details	UL® 1449 Edition 4 Type 1CA	
Complies With	EN 50539-11 Type 1, Type 2	
Standard Packaging Quantity	1 pc	
UPC	78285695359	78285695360
EAN-13	0782856953593	0782856953609

# PVT2 PHOTOVOLTAIC SURGE PROTECTION CLASS II



## FEATURES

- Suited for use at the DC input of distributed string inverters in solar arrays
- Thermal protection included to ensure safe failure modes
- Compact, yet high surge rated pluggable design, using minimum DIN rail width

Part Number	PVT21000R	PVT21500R
Max Continuous Operating Voltage ( $U_{cpv}$ )	1,100 V	1,500 VDC
Nominal Discharge Current ( $I_n$ ), IEC	20 kA 8/20 $\mu$ s	
Max Discharge Current ( $I_{max}$ )	40 kA 8/20 $\mu$ s	30 kA 8/20 $\mu$ s
Total Discharge Current ( $I_{total}$ )	50 kA 8/20 $\mu$ s	40 kA 8/20 $\mu$ s
Voltage Protection Level ( $U_p$ )	4,000 V	5,000 V
Response Time	25 s Max	
Short Circuit Current Rating ( $I_{SCCR}$ )	11 kA	
Max Continuous Operating Voltage ( $V_{pvc}$ )	1,100 VDC	1,500 VDC
Voltage Protection Rating (VPR)	3,000 V	4,000 V
Nominal Discharge Current ( $I_n$ ), UL	20 kA 8/20 $\mu$ s	
Short Circuit Current Rating (SCCR)	50 kA	65 kA
Protection Modes	-ve to PE, -ve to +ve, +ve to PE	
Altitude	6,562' / 2,000 m Max	
Humidity	5 – 95 % RH	
Temperature	-40 to 185 °F / -40 to 85 °C	
Connection, Flexible	#4 / 25 mm <sup>2</sup>	
Connection, Solid	#2 / 35 mm <sup>2</sup>	
Connection, Stranded	#2 / 35 mm <sup>2</sup>	
Enclosure Material	UL® 94V-0 Thermoplastic	
Enclosure Rating	IP 20	
Mounting	35 mm top hat DIN rail	
Torque (TQ)	3.3 ft lb / 4.5 N-m Max	
Remote Contact Switching Capacity	1.0 A @ 125 VAC, 1.0 A @ 250 VAC, 0.5 A @ 12 VDC, 0.5 A @ 24 VDC, 0.5 A @ 48 VDC	
Remote Contacts	Yes	
Status Indication	Mechanical flag	
Unit Weight	0.9 lb / 0.41 kg	1.0 lb / 0.45 kg
Standard Packaging Quantity	1 pc	
UPC	78285695361	78285695362
EAN-13	0782856953616	0782856953623



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