

PVT2 Photovoltaic Surge Protection Class II



CERTIFICATIONS



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

SPECIFICATIONS

Catalog Number	PVT21000R	PVT21500R
Max Continuous Operating Voltage (Ucpv)	1100	1500
Nominal Discharge Current (In), IEC	20kA 8/20 μ s	20kA 8/20 μ s
Max Discharge Current (Imax)	40kA 8/20 μ s	30kA 8/20 μ s
Total Discharge Current (Itotal)	50	40
Voltage Protection Level (Up)	4000V	5000V
Response Time	25 ns Max	25 ns Max
Short Circuit Current Rating (Isccr)	11kA	11kA

Catalog Number	PVT21000R	PVT21500R
Max Continuous Operating Voltage (Vpdc)	1,100 VDC	1,500 VDC
Voltage Protection Rating (VPR)	2500V	4000V
Nominal Discharge Current (In), UL	20kA 8/20 μ s	20kA 8/20 μ s
Short Circuit Current Rating (SCCR)	50kA	65kA
Protection Modes	-ve to PE -ve to +ve +ve to PE	-ve to PE -ve to +ve +ve to PE
Altitude	2000 m Max	2000 m Max
Humidity	5 - 95	5 - 95
Temperature	-40 to 85 °C	-40 to 85 °C
Connection, Flexible	25 mm ²	25 mm ²
Connection, Solid	35 mm ²	35 mm ²
Connection, Stranded	35 mm ²	35 mm ²
Enclosure Material	UL® 94V-0 Thermoplastic	UL® 94V-0 Thermoplastic
Enclosure Rating	IP 20	IP 20
Mounting	35 mm top hat DIN rail	35 mm top hat DIN rail
Remote Contact Switching Capacity	1 A @ 125 VAC 1 A @ 250 VAC 0.5 A @ 12 VDC 0.5 A @ 24 VDC 0.5 A @ 48 VDC	1 A @ 125 VAC 1 A @ 250 VAC 0.5 A @ 12 VDC 0.5 A @ 24 VDC 0.5 A @ 48 VDC
Remote Contacts	Yes	Yes
Status Indication	Mechanical flag	Mechanical flag
Depth (D)	69mm	69mm
Height (H)	90 mm	90 mm
Width (W)	54 mm	54 mm
Unit Weight	0.41 kg	0.45 kg
Replacement Module	PVT2500M	PVT2750M
Certification Details	UL® 1449 Edition 4 Type 1CA	UL® 1449 Edition 4 Type 1CA
Complies With	EN 50539-11 Type 2	EN 50539-11 Type 1, Type 2

DIAGRAMS



WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at www.nvent.com and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

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