

PVT2 Photovoltaic Surge Protection Class II, 1,100 V Max Continuous Operating Voltage (Ucpv)

Power Utilities

CATALOG NUMBER

PVT21000R



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

PRODUCT ATTRIBUTES

Max Continuous Operating Voltage (Ucpv): 1,100 V

Nominal Discharge Current (In), IEC: 20 kA 8/20 μ s

Max Discharge Current (Imax): 40 kA 8/20 μ s

Total Discharge Current (I_{total}): 50 kA 8/20 μs

Voltage Protection Level (Up): 4,000 V

Response Time: 25 ns Max

Short Circuit Current Rating (I_{sc}): 11 kA

Max Continuous Operating Voltage (V_{pdc}): 1,100 VDC

Voltage Protection Rating (VPR): 2,500 V

Nominal Discharge Current (I_n), UL: 20 kA 8/20 μs

Short Circuit Current Rating (SCCR): 50 kA

Protection Modes: -ve to PE;-ve to +ve;+ve to PE

Altitude: 2,000 m Max

Humidity: 5 – 95 % RH

Temperature: -40 to 85 °C

Connection, Flexible: 25 mm²

Connection, Solid: 35 mm²

Connection, Stranded: 35 mm²

Enclosure Rating: IP 20

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

Height (H): 90 mm

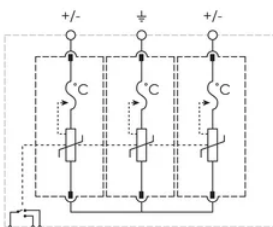
Width (W): 54 mm

Unit Weight: 0.410 kg

Replacement Module: PVT2500M

Certification Details: UL® 1449 Edition 5 Type 1CA

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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