

# PVT2 Photovoltaic Surge Protection Class II

## Power Utilities



### 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

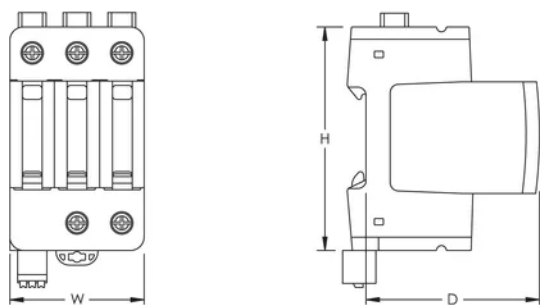
### SPECIFICATIONS

| Catalog Number                          | PVT21000R          | PVT21500R          |
|-----------------------------------------|--------------------|--------------------|
| Max Continuous Operating Voltage (Ucpv) | 1,100 V            | 1,500 VDC          |
| Nominal Discharge Current (In), IEC     | 20 kA 8/20 $\mu$ s | 20 kA 8/20 $\mu$ s |
| Max Discharge Current (Imax)            | 40 kA 8/20 $\mu$ s | 30 kA 8/20 $\mu$ s |
| Total Discharge Current (Itotal)        | 50 kA 8/20 $\mu$ s | 40 kA 8/20 $\mu$ s |
| Voltage Protection Level (Up)           | 4,000 V            | 5,000 V            |

| Catalog Number                          | PVT21000R                                                                                | PVT21500R                                                                                |
|-----------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Response Time                           | 25 ns Max                                                                                | 25 ns Max                                                                                |
| Short Circuit Current Rating (Isccr)    | 11 kA                                                                                    | 11 kA                                                                                    |
| Max Continuous Operating Voltage (Vpvc) | 1,100 VDC                                                                                | 1,500 VDC                                                                                |
| Voltage Protection Rating (VPR)         | 2,500 V                                                                                  | 4,000 V                                                                                  |
| Nominal Discharge Current (In), UL      | 20 kA 8/20 µs                                                                            | 20 kA 8/20 µs                                                                            |
| Short Circuit Current Rating (SCCR)     | 50 kA                                                                                    | 65 kA                                                                                    |
| Protection Modes                        | -ve to PE<br>-ve to +ve<br>+ve to PE                                                     | -ve to PE<br>-ve to +ve<br>+ve to PE                                                     |
| Altitude                                | 2,000 m Max                                                                              | 2,000 m Max                                                                              |
| Humidity                                | 5 – 95 % RH                                                                              | 5 – 95 % RH                                                                              |
| Temperature                             | -40 to 85 °C                                                                             | -40 to 85 °C                                                                             |
| Connection, Flexible                    | 25 mm <sup>2</sup>                                                                       | 25 mm <sup>2</sup>                                                                       |
| Connection, Solid                       | 35 mm <sup>2</sup>                                                                       | 35 mm <sup>2</sup>                                                                       |
| Connection, Stranded                    | 35 mm <sup>2</sup>                                                                       | 35 mm <sup>2</sup>                                                                       |
| Enclosure Rating                        | IP 20                                                                                    | IP 20                                                                                    |
| Remote Contact Switching Capacity       | 1.0 A @ 125 VAC<br>1.0 A @ 250 VAC<br>0.5 A @ 12 VDC<br>0.5 A @ 24 VDC<br>0.5 A @ 48 VDC | 1.0 A @ 125 VAC<br>1.0 A @ 250 VAC<br>0.5 A @ 12 VDC<br>0.5 A @ 24 VDC<br>0.5 A @ 48 VDC |
| Remote Contacts                         | Yes                                                                                      | Yes                                                                                      |
| Status Indication                       | Mechanical flag                                                                          | Mechanical flag                                                                          |
| Height (H)                              | 90 mm                                                                                    | 90 mm                                                                                    |
| Width (W)                               | 54 mm                                                                                    | 54 mm                                                                                    |
| Unit Weight                             | 0.410 kg                                                                                 | 0.450 kg                                                                                 |
| Replacement Module                      | PVT2500M                                                                                 | PVT2750M                                                                                 |
| Certification Details                   | UL® 1449 Edition 5 Type 1CA                                                              | UL® 1449 Edition 5 Type 1CA                                                              |

## DIAGRAMS

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## WARNING

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