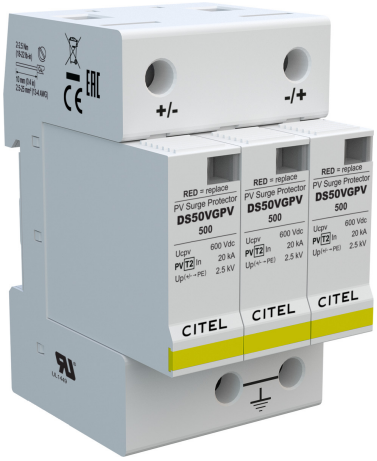
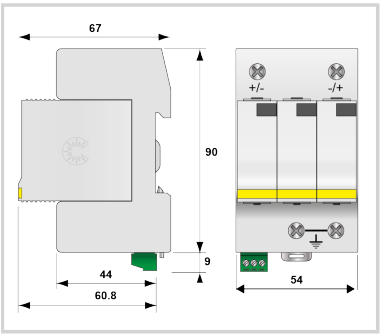
# DS50VGPVS-500




- UL Type 1 CA DC SPD
  - VG Technology for Maximum Performance
  - Zero Leakage Current
  - Zero Current Working
  - Iimp : 12.5kA/pole at 10/350µs
  - In:20kA/pole at 8/20µs
  - UL 1449 5th Edition Recognized




| Electrical Characteristics | | |
|---|---|---|
| Network | | PV 500 Vdc |
| Max. discharge current<br>*max. withstand @ 8/20 µs by pole* | Imax | 40 kA |
| Total Maximum discharge current<br>*max. total withstand @ 8/20 µs* | Imax Total | 60 kA |
| Connection mode(s) | | +/-/PE |
| Protection mode(s) | | Common/Differential mode |
| Protection level +/PE (-/PE)<br>*@ In (8/20µs)* | Up | 2.5 kV |
| Maximum Discharge Current<br>*Imax (8/20)* | kA | 40.0000 |
| POWER SPD TYPE | | UL1449 TYPE 1CA |
| VOLTS | (V) | 500 |
| AC/DC/DC PV/RF | | DC PV |
| PHASE | (PH) | |
| AMPS | (A) | N/A |
| AMBIENT MIN | (C) | -40 |
| AMBIENT MAX | (C) | +85 |
| MODES | | DC+-DC- or DC+-G or DC--G |
| VPR | (V) | 2500/1500/1500 |
| MCOV | (V) | 500/500/500 |
| IN<br>*15 impulses 8/20µs* | (kA) | 20 |
| SCCR | (kA) | 100 |
| **Option** | | |
| Remote status dry contact electrical rating*Max Voltage* | V | 250.0000 |
| Remote status dry contact electrical rating*Max Current* | A | 0.5000 |
| RFI Filter | | no |
| **Installation** | | |
| Wiring type | | Screw |
| Solid wire cross section*Min* | mm² | 4.0000 |
| Solid Wire cross section*Max* | mm² | 25.0000 |
| Stranded Wire cross section*Min* | mm² | 4.0000 |
| Stranded wire cross section*Max* | mm² | 25.0000 |
| Wire gauge*Min* | AWG | 12.0000 |
| Wire gauge*Max* | AWG | 4.0000 |
| Torque | Nm | 2.0 - 2.5 |
| Torque | in-lbs | 17.8 - 22.1 |
| Strip Length | mm | 12.5000 |
| Strip Length | in | 0.5000 |
| Operating Temperature*Min* | °C | -40.0000 |
| Operating Temperature*Max* | °C | 85.0000 |
| Operating Temperature*Min* | °F | -40.0000 |
| Operating Temperature*Max* | °F | 85.0000 |
| Operating Relative Humidity*Max* | %RH | 95 |
| Operating Altitude*Min* | Ft | 2000.0000 |
| Operating Altitude*Max* | Ft | 6500.0000 |
| Housing/Enclosure material | | Thermoplastic |
| Flammability rating*UL 94* | | V0 |
| Mounting | | Din Rail |
| IP Environmental rating*IP* | | IP20 |
| NEMA Environmental rating*NEMA* | | NEMA 1 |
| Installation Location | | Indoor |
| Spare part | | Module |
| Product Dimension*L* | mm | 99.0000 |

# DS50VGPVS-500

| | | |
|---|---|---|
| Product Dimension*H* | mm | 67.0000 |
| Product Dimension*W* | mm | 54.0000 |
| Product Dimension*L* | In | 3.8900 |
| Product Dimension*H* | In | 2.6400 |
| Product Dimension*W* | In | 2.1300 |
| **Miscelaneous** | | |
| Individual Pack | | Yes |
| Storage Temperature*Min* | °C | -40.0000 |
| Storage Temperature*Max* | °C | 85.0000 |
| Storage Temperature*Min* | °F | -40.0000 |
| Storage Temperature*Max* | °F | 85.0000 |
| Storage Relative Humidity*Max* | %RH | 95.0000 |
| **Mechanical Characteristics** | | |
| Technology | | VG Technology (MOV+GSG) |
| Connection to Network | | By screw terminals: 4-25mm² |
| Format | | Plug-in modular box |
| Mounting | | Symmetrical rail 35 mm (EN 60715) |
| Operating temperature | Tu | -40/+85°C |
| Protection rating | | IP20 |
| Failsafe mode | | Disconnection SPD of the PV line |
| TECHNOLOGY | | MOV+GSG |
| NETWORK CONFIGURATION | | 3 poles, 2W+G |
| CONNECTION METHOD | | SPD-Screw Terminal (8-12AWG), Terminal blocks 6AWG |
| MOUNTING | | Din Rail |
| MATERIAL | | Thermoplastic UL94-V0 |
| NEMA RATING (IP RATING) | | NEMA 2 (IP20) |
| FAIL-SAFE BEHAVIOR | | Disconnection via fuse-link |
| REAL-TIME DIAGNOSTICS | | Visual indicator and remote contacts |
| DIMENSIONS | | See diagram |
| **Standards** | | |
| Certification | | UL Recognized |
| UL STANDARD | | UL1449 5th Edition |
| UL FILE NUMBER | | E326289 |
| **Part number** | | |
| **480161** | | |