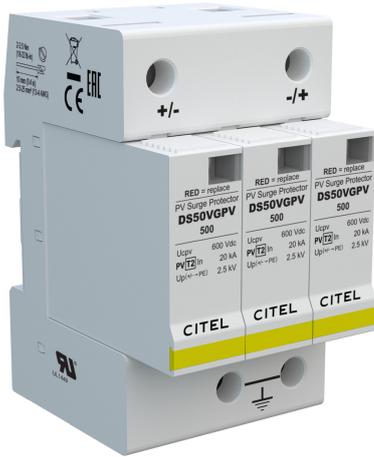




# CITEL



## DS50VGPV-500

### ►UL Type 1 CA DC SPD for PV Systems

- VG Technology for Maximum Performance
- Zero Leakage Current
- Zero Current Working
- I<sub>max</sub> : 40kA/pole at 8/20µs
- I<sub>n</sub> : IEC 20kA/pole, UL 10kA/pole at 8/20µs
- UL 1449 5th Edition Recognized



Electrical Characteristics		
Network		PV 1250 Vdc
Max. discharge current <i>max. withstand @ 8/20 µs by pole</i>	I <sub>max</sub>	40 kA
Total Maximum discharge current <i>max. total withstand @ 8/20 µs</i>	I <sub>max</sub> Total	60 kA
Connection mode(s)		+/-/PE
Protection mode(s)		Common/Differential mode
Protection level +/-PE (-/PE) <i>@ I<sub>n</sub> (8/20µs)</i>	U <sub>p</sub>	2.5 kV
Maximum Discharge Current <i>I<sub>max</sub> (8/20)</i>	kA	40.0000
Maximum Discharge Current <i>I<sub>max</sub> (8/20)</i>	kA	40.0000
Maximum Discharge Current <i>I<sub>max</sub> (8/20)</i>	kA	40.0000
Voltage Protection Level <i>VPR</i>	V	2500.0000
Voltage Protection Level <i>VPR</i>	V	1500.0000
Voltage Protection Level <i>VPR</i>	V	1500.0000
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)	-35
AMBIENT MAX	(C)	+85
MODES		DC+G or DC-G
VPR	(V)	2500/1500/1500
MCOV	(V)	500/500/500
IN <i>15 impulses 8/20µs</i>	(kA)	20
SCCR	(kA)	100
Option		
Remote status dry contact electrical rating <i>Max Voltage</i>	V	250.0000
Remote status dry contact electrical rating <i>Max Current</i>	A	0.5000
RFI Filter		no
Installation		
Wiring type		Screw
Solid wire cross section <i>Min</i>	mm <sup>2</sup>	4.0000
Solid Wire cross section <i>Max</i>	mm <sup>2</sup>	25.0000
Stranded Wire cross section <i>Min</i>	mm <sup>2</sup>	4.0000
Stranded wire cross section <i>Max</i>	mm <sup>2</sup>	25.0000
Wire gauge <i>Min</i>	AWG	12.0000
Wire gauge <i>Max</i>	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 <i>Min</i>	°C	-40.0000
Operating Temperature <i>Max</i>	°C	85.0000
Operating Temperature <i>Min</i>	°F	-40.0000
Operating Temperature <i>Max</i>	°F	85.0000
Operating Relative Humidity <i>Max</i>	%RH	95
Operating Altitude <i>Min</i>	Ft	2000.0000



# CITEL

## DS50VGPV-500

Operating AltitudeMax	Ft	6500.0000
Housing/Enclosure material		Thermoplastic
Flammability ratingUL 94		V0
Mounting		Din Rail
IP Environmental ratingIP		IP20
NEMA Environmental ratingNEMA		NEMA 1
Installation Location		Indoor
Spare part		Module
Product DimensionL	mm	99.0000
Product DimensionH	mm	67.0000
Product DimensionW	mm	54.0000
Product DimensionL	In	3.8900
Product DimensionH	In	2.6400
Product DimensionW	In	2.1300
<b>Miscellaneous</b>		
Individual Pack		Yes
Storage TemperatureMin	°C	-40.0000
Storage TemperatureMax	°C	85.0000
Storage TemperatureMin	°F	-40.0000
Storage TemperatureMax	°F	85.0000
Storage Relative HumidityMax	%RH	95.0000
<b>Mechanical Characteristics</b>		
Technology		VG Technology (MOV+GSG)
Connection to Network		By screw terminals: 4-25mm <sup>2</sup>
Format		Plug-in modular box
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		Wall mount
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
<b>Standards</b>		
Certification		UL
UL STANDARD		UL1449 5th Edition
UL FILE NUMBER		E326289
<b>Part number</b>		
<b>480151</b>		

