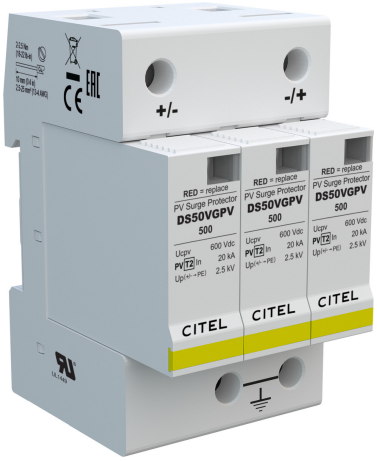
DS50VGPV-500



- UL Type 1 CA DC SPD for PV Systems
  - VG Technology for Maximum Performance
  - Zero Leakage Current
  - Zero Current Working
  - Imax : 40kA/pole at 8/20µs
  - In : IEC 20kA/pole, UL 10kA/pole at 8/20µs
  - UL 1449 5th Edition Recognized

Electrical Characteristics		
Network		PV 1250 Vdc
Max. discharge current *max. withstand @ 8/20 µs by pole*	Imax	40 kA
Total Maximum discharge current *max. total withstand @ 8/20 µs*	Imax Total	60 kA
Connection mode(s)		+/-/PE
Protection mode(s)		Common/Differential mode
Protection level +/PE (-/PE) *@ In (8/20µs)*	Up	2.5 kV
Maximum Discharge Current *Imax (8/20)*	kA	40.0000
Maximum Discharge Current *Imax (8/20)*	kA	40.0000
Maximum Discharge Current *Imax (8/20)*	kA	40.0000
Voltage Protection Level *VPR*	V	2500.0000
Voltage Protection Level *VPR*	V	1500.0000
Voltage Protection Level *VPR*	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)	-40
AMBIENT MAX	(C)	+85
MODES		DC+-G or DC--G
VPR	(V)	2500/1500/1500
MCOV	(V)	500/500/500
IN *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

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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
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		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
Standards		
Certification		UL
UL STANDARD		UL1449 5th Edition
UL FILE NUMBER		E326289
Part number		
480151		