

DS50VGPV-500



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



Electrical Characteristics		
Total Maximum discharge current max. total withstand @ 8 /20 μs	I _{max} Total	60 kA
Protection mode(s)		Common/Differential mode
Protection level +/-PE (-/PE)@ I _n (8/20μs)	U _p	2.5 kV
Maximum Discharge Current I _{max} (8/20)	kA	40.0000
Maximum Discharge Current I _{max} (8/20)	kA	40.0000
Maximum Discharge Current I _{max} (8/20)	kA	40.0000
Voltage Protection Level V _{PR}	V	2500.0000
Voltage Protection Level V _{PR}	V	1500.0000
Voltage Protection Level V _{PR}	V	1500.0000
POWER SPD TYPE		UL1449 TYPE 1CA
VOLTS	(V)	500
AC/DC/DC PV/RF		DC PV & DC
PHASE	(PH)	-
AMPS	(A)	N/A
AMBIENT MIN	(C)	-35
AMBIENT MAX	(C)	+85
MODES		DC+G or DC-G
V _{PR}	(V)	2500/1500/1500
MCOV	(V)	600/600/600
MCOV	(V)	600/600/600
IN15 impulses 8/20μs	(kA)	20
SCCR	(kA)	100
Option		
Remote status dry contact electrical ratingMax Voltage	V	250.0000
Remote status dry contact electrical ratingMax Current	A	0.5000
RFI Filter		no
Installation		
Wiring type		Screw
Solid wire cross sectionMin	mm ²	4.0000
Solid Wire cross sectionMax	mm ²	25.0000
Stranded Wire cross sectionMin	mm ²	4.0000
Stranded wire cross sectionMax	mm ²	25.0000
Wire gaugeMin	AWG	12.0000
Wire gaugeMax	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 TemperatureMin	°C	-40.0000
Operating TemperatureMax	°C	85.0000
Operating TemperatureMin	°F	-40.0000
Operating TemperatureMax	°F	85.0000
Operating Relative HumidityMax	%RH	95
Operating AltitudeMin	Ft	2000.0000
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

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Product DimensionW	mm	54.0000
Product DimensionL	In	3.8900
Product DimensionH	In	2.6400
Product DimensionW	In	2.1300
Miscellaneous		
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
Mechanical Characteristics		
Weight		0.259 kg
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
UL STANDARD		UL1449 5th Edition
UL FILE NUMBER		E326289
Part number		
480151		