

Features

- Hybrid MOV/GDT design
- No leakage over life
- DIN Rail mountable
- 40 kA maximum impulse current rating
- Minimal footprint within DC power system
- Uni-block design with replaceable modules
- Visual fault indicator

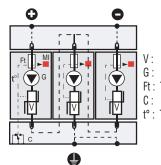
Thermal disconnect

- Standards compliance: <€ 🔊 🚱
- RoHS compliant*

General Information

The Bourns[®] Model 1420 Series is a DC power Surge Protective Device (SPD) designed to protect power systems operating up to 1200 Vdc. The unique hybrid MOV/GDT design provides an enhanced level of protection against the effects of direct or indirect lightning.

Electrical Diagram



1420 Series DC Power SPD for Photovoltaic Applications

- V: High energy MOV
- G: Heavy duty gas discharge tube
- Ft : Thermal fuse
- C: Remote signaling contact
- t°: Thermal disconnection system

Electrical Characteristics

Characteristic	Model No. 1420-PV-1000
Protection Mode	MC/MD ¹
Max. Operating Voltage (Uc) dc	1200 Vdc
IEC/UL Nominal Discharge Current (In)	20 kA
15 x 8/20 μ s impulses	
Max. Discharge Current (limp)	
10/350 μs max.	
Max. Lightning Current by Pole (Imax)	40 kA
Protection Level @ In (Up)	< 3.6 V
Residual Voltage at 5 kA	< 2.6 kV
Operating Current (Ic)	None
Leakage Current at Uc	
Follow Current (If)	None

Note 1: MC = Common Mode (+/PE or -/PE) and MC/MD = Common Mode and Differential Mode (±).

General Characteristics

Characteristic	Model No. 1420-PV-1000
Thermal Disconnector	Internal
Dimensions	See Product Dimensions
Connection	By Screw Terminal: #4 AWG max.
Disconnection Indicator	1 Mechanical Indicator
Mounting	DIN Rail, 35 mm Symmetrical
Remote Signaling	250 V / 0.5 A (AC)
	125 V / 3 A (DC)
Enclosure Material	Thermoplastic UL 94V0

Environmental Characteristics

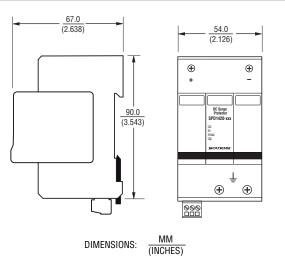
Characteristic	Model No. 1420-PV-1000
Operating Temperature	-50 °C to +85 °C
Environmental Rating	IP 20

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

Specifications are subject to change without notice. The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

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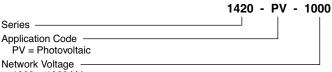
Product Dimensions



Standards Compliance

IEC61643-1 - InternationalLow Voltage SPD - Test Class II NF EN 61643-11 - FranceLow Voltage SPD - Test Class II UL1449 3rd Edition - USAType 4, Type 2 Location CSA C22.2 No. 8-M1986Class 9091 32, Class 9091 92 DIN EN61643-11 - GermanySurge Arrestor Type 2

How To Order



1000 = 1000 Vdc



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REV. 05/13

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