

DC Lightning Surge Protector, 12Vdc, 50A Negative Ground



IS-12VDC-50A-NG

Features

- 18kA surge rating
- Coordinated multi-stage protection topology
- Full-mode protection

Applications

- DC Power Systems

Description

DC surge protector (also known as lightning arrestor) IS-12VDC-50A-nG from PolyPhaser utilizes a coordinated multi-stage design to protect critical hardware from lightning and other induced transients. PolyPhaser surge protector products are available in stock with same day shipping.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
DC Operating Current			50	A
Series Impedance (DC)		0.02		Ohms
Ground Configuration		Negative DC Ground		
DC Operating Voltage		12		Volts

Surge Protection Specification

Description	Minimum	Typical	Maximum	Units
Surge				
SURGE CURRENT IEC 61000-4-5 8/20us Waveform, 18kA Max				
			18	kA
Turn On Voltage (DC)		18		Vdc

Mechanical Specifications

Size

Length	4.44 in [112.78 mm]
Width/Diameter	3.88 in [98.55 mm]
Height	2.55 in [64.77 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:
[DC Lightning Surge Protector, 12Vdc, 50A Negative Ground IS-12VDC-50A-NG](#)

DC Lightning Surge Protector, 12Vdc, 50A Negative Ground



IS-12VDC-50A-NG

Weight 1.85 lbs [839.15 g]

Configuration

Connector Compression Lug

Environmental Specifications

Temperature

Operating Range -40 to +65 deg C

Installation

Mount Type Panel Mount

Compliance Certifications

Plotted and Other Data

Notes:

PolyPhaser protects and increases the reliability of global RF communications networks, including transportation, telecommunications, defense, security and industrial applications, with superior RF surge protection technologies including DC Block, DC Pass and Ultra Low PIM. Backed by responsive service and expert technical support PolyPhaser continually expands its product offering and services to serve engineers' urgent needs for RF components in mission critical communication networks.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [DC Lightning Surge Protector, 12Vdc, 50A Negative Ground IS-12VDC-50A-NG](https://www.polyphaser.com/IS-12VDC-50A-NG)

URL: <https://www.polyphaser.com/IS-12VDC-50A-NG-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. PolyPhaser reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. PolyPhaser does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and PolyPhaser does not assume any liability arising out of the use of any part or documentation.

IS-12VDC-50A-NG CAD Drawing

REVISIONS		
REV.	DESCRIPTION	DATE
A	PRODUCTION RELEASE	5/19/2021
	APPROVED	DWR

2X ϕ .20 [5.2]

QTY	DESCRIPTION
2PT FLANGE HARDWARE KIT INCLUDES:	
2	WASHER 10 EXT TOOTH SS
2	NUT 10-32 HEX 18-8 SS
2	SCREW 10-32x.50 SLOT MS PAN 18-8 SS

QTY	DESCRIPTION
VDC-50A HARDWARE KIT INCLUDES:	
4	RING TERMINAL, 3/8" 12-10AWG
8	LOCKWASHER EXT. 3/8"
4	HEX NUT 3/8"-24

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES: X ± .2 [5.08] FRACTIONS XX ± .02 [.51] +.132 XXX ± .005 [.13] ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES: L ≤ 12 [305] = +1 [25] / -0 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1
SCALE 1:2

SIZE	CAGE CODE	DRAWN BY	PART NUMBER	REV
A	30992	DMAY	IS-12VDC-50A-NG	A