

# SPP-1202S Series

DC and AC Power Wire-In

Surge Suppressor



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## Features:

- ▶ Fast, secure wire-in with barrier strip terminals
- ▶ Exceeds recommendations for IEEE/ANSI C62.41.2-2002 Categories A3 & B3 and UL 1449 Second Edition including a powerful “no wear out” design.
- ▶ Meets severity level 4 of IEC/EN 61000-4-4 and 61000-4-5.
- ▶ Unique multi-stage design provides the most effective suppression available and requires no additional secondary protection.
- ▶ “No wear out” design coupled with EMI/RFI filtering for all lines and modes.
- ▶ Both differential and common mode suppression and filtering.
- ▶ Automatically resets after each transient. No maintenance is required.
- ▶ Space efficient protector is hermetically sealed and suitable for the harshest environments.
- ▶ Sub nanosecond response time stops failures due to lightning, spikes and over voltage surges while minimizing other electrical noise.
- ▶ Bi-directional design, suitable for AC and DC applications.

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## Applications:

The SPP-1202S Series is normally installed in measurement and process control equipment, DC power distribution or instrumentation panels and other computer power bus installations.

May be hard wired into DC power distribution lines in the most severe industrial environment.

Select the model according to the operating voltage found on the reverse side of this data sheet.

Select the 15KP Series for the secondary only level of DC protection.

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## Typical Installation:

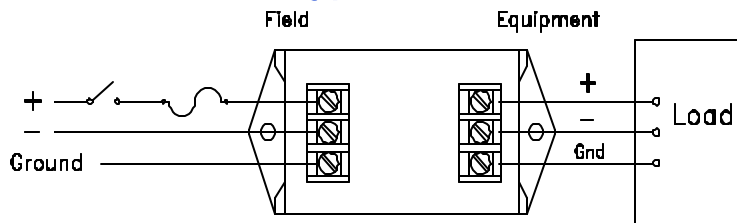
Install the SPP-1202S Series after the power switch and fuse, and as close to the electronic equipment it protects as possible. The ground terminal must be connected to a good earth ground (AWG #14 or larger). Dress output (clean) lines away from incoming lines. This suppressor contains no internal fuse and can fail short under direct lightning exposure; therefore, proper fusing is essential. Heat sinking is not required.

# SPP-1202S Series Operating Specifications:

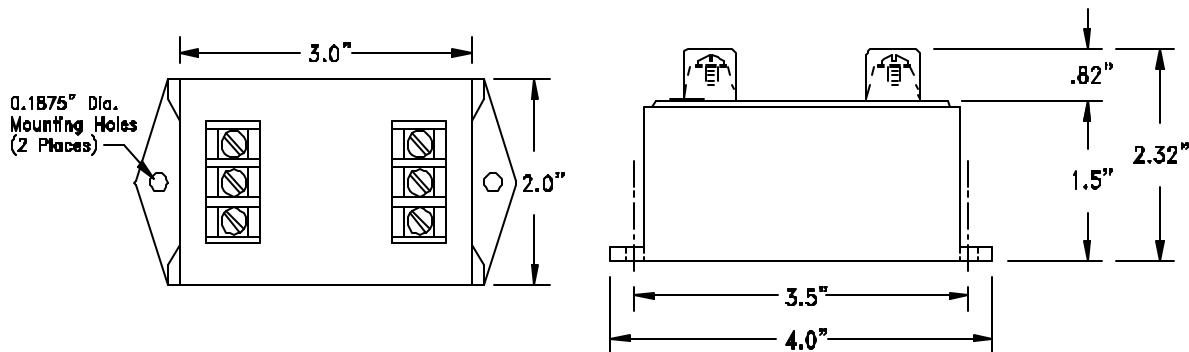
Specifications	SPP-1202S	SPP-1202S1	SPP-1202S2	SPP-1202S3	SPP-1202S4	SPP-1202S5	SPP-1202S6	SPP-1202S7	SPP-1202S8	SPP-1202S9	SPP-1202S10
AC Operating Voltage ( Volts)	3	8	16	20	24	36	45	55	68	85	90
Maximum AC Operating Voltage (Volts)	4	10	18	22	28	40	50	60	75	95	110
DC Operating Voltage ( Volts)	5	12	24	28	36	50	60	74	90	120	130
Maximum DC Operating Voltage (Volts)	6	14	27	30	38	55	68	81	102	127	150
Maximum Operating Current ( Amps)	15	15	15.	15	15	15	15	15	15	15	15
Current Leakage/Line at Operating Voltage (mA)	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Maximum Clamping at 500A (8x20 microseconds) (Volts)	11	22	42	46	59	89	90	109	128	143	180
Maximum Surge Voltage	20 kV										
Maximum Surge (8x20 microseconds)	10 kA										
Response Time	Less than 1 nanosecond										
Operating & Storage Temperature	-40 °C to +85 °C										

\* Consult the factory for other applications and operating conditions and specifications. All specifications at 25 degrees Celsius.

## Typical Installation:



## Outline Dimensions:



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