

RV-SP-1 / -2

In-Line DC Surge Protector

This device is designed to be plugged in-line with the DC input to electrical devices that may be subject to over-voltage (> 16V) events, large transient voltage spikes, electrical noise, or RF noise. It filters the DC and protects the connected device from over-voltage and transient events.



1.1 Features

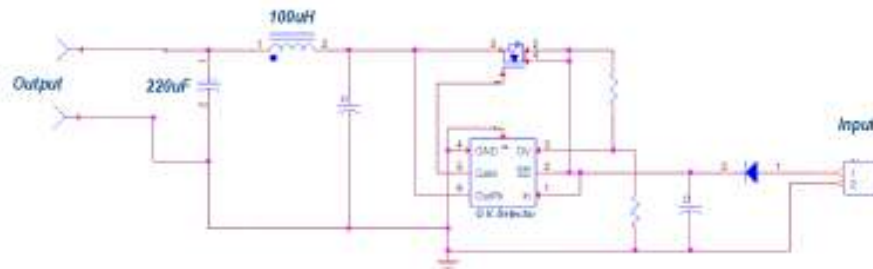
- Over-voltage protection for 12V, automotive, and heavy-equipment applications.
- Built-in RF and noise filtering.
- Works with devices having DC current draw of 0-5 amps.
- Protects 12V devices from power surges due to charging, alternator issues, and battery disconnect.

1.2 General Specifications

Part Number (For M7 series).....	RV-SP-1
Part Number (For M7-WX series with weatherproof connection).....	RV-SP-2
Size (L,W,H).....	75.5mm (2.98") X 23.5mm(.925") X 22mm(.865")
DC input (Guaranteed will-conduct)	10.0V – 16.0V
DC input protection range,	-20 to +50V
Voltage drop when conducting	<0.4V
Over-voltage cut-off.....	16.5V nominal, 17.0V max
Operating temperature range.....	-30°C to +60°C
Connector, male on cable	Raveon 1J165-6, Phoenix Contact 1900772
Connector, female on housing	Raveon 1J165-5, Phoenix Contact 1836189
DC current Consumption	< 200uA
DC power dissipation limit.....	< 1.5A: continuous operation 1.5A - 3A: <30% of the time 3A - 5A: <10% of the time

1.3 Overview

Internal Wiring Diagram



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