Dual DC EMI Filter DIN Rail Mount 2x9A 50V

Two EMI Filters in One Enclosure Provide Clean EMI-Free DC Power

Switched mode power supplies are at the core of operation of most electronics. The problem is, some of them generate unacceptable levels of electrical noise, otherwise known as conducted electromagnetic interference (EMI), causing operation errors, malfunction, and even device damage. And sometimes the circuits that are driven by DC power generate unacceptably high levels of EMI themselves.

OnFILTER'S DC EMI filters block EMI while passing unaltered DC power to your devices. The filters provide especially good attenuation where you need it—in the spectrum of operation of switched mode power supplies (SMPS) and PWM motors.

DVNG5009 is two independent EMI filters in one enclosure. Each of these independent filters provides up to 9A DC current. The filters can be connected in several different configurations to suit your needs.



Applications

Industrial control
Control panel UL 508A
Automated tools
Photovoltaic / Solar
Inverters
Semiconductor fabrication
Electronic assembly
LED lighting
Wherever EMI is a concern

Features

Clean DC power
Superior EMI suppression
Symmetrical operation
Two filters in one
Multiple configurations
Easy installation

Superior Reduction of EMI from Power Supplies, Motors, Inverters, and Lighting

DVNG5009 provides EMI suppression where you need it—across the wide spectrum starting at 10kHz. Common industry filters start their attenuation only above 100kHz

Two EMI DC Filters in One

DVNG5009 is two independent filters in one allowing use of just one unit for multiple DC circuits, saving space and cost.

Multiple Configurations, One Filter

You can use DCNG5009 in several configurations: two separate filters; one combined filter doubled in current capacity; serial connection of these two filters to boost attenuation at the very low frequencies; or in a differential mode providing filtering in both positive and negative supply branches.

Fully Symmetrical Performance

DVNG5009 provides EMI attenuation in both directions, enabling noise-free operation of equipment in your electrical panel. It blocks EMI from DC power supply, but also blocks EMI generated by a noisy load from polluting DC supply for the rest of equipment

DVNG5009 DC EMI Filter 2x9A 50VDC DIN Rail Mount

Suitable for UL 508A Panels



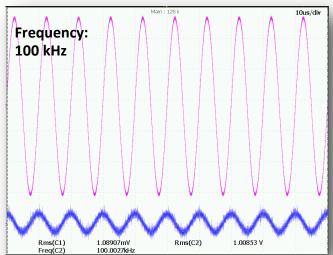
Specification

OnFILTER DC dual filter DCNG5009N provides substantial reduction in noise from switched mode power supplies and from "noisy" loads protecting proper operation of sensitive electronics.

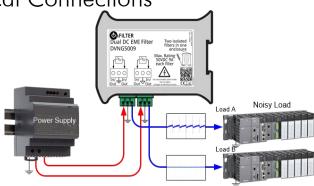
Parameter	DVNG5009
DC Voltage, max. Current, max.	50VDC
Single connection	9A
Parallel connection	18A
Nominal DC Resistance	<0.1Ω
DIN Rail Case Width	35mm (1.38")
DCNG5009 qualifies for UL 508A panels as low voltage, low energy circuit (the filter itself consumes very little current just for LEDs	

Typical Performance Data

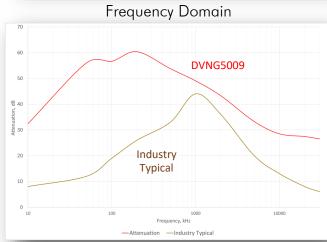
Time Domain

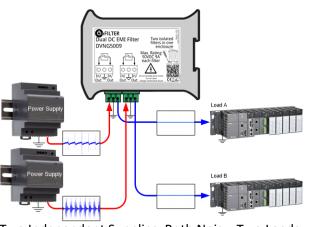


Typical Connections

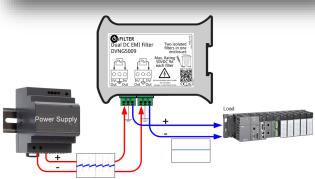


One Power Supply, Two Loads, One is Noisy





Two Independent Supplies, Both Noisy; Two Loads



Filtering Both Polarities

Ordering Information

DC EMI Filter Model: DVNG5009

Model Rating Mount
DVNG5009 50V 10A DIN Rail





Unfilter

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