

FF1-8W Series - NEMA1 8amp WVR Single Phase

Models	FF1-8W-120	FF1-8W-240E
Mfg Part #	002-00076	002-00080
Voltage/Hz	120V ac nominal 50-60 Hz	240V ac Single leg with neutral line 50-60 Hz
Max. Amperage	8 amps	8 amps
Box Connectors	Supplied by customer, to fit standard knockouts *	
Ground Connect	Flying leads from ground screw, attach using wire nuts	
Wire Connector & recommended attachment	.250" quick disconnects	
Over-current Protection	Filter must be installed on a branch circuit with over-current protection of 20 amps	
Enclosure	NEMA1 screw cover box w/ knockouts 10"H x 8"W x 4"D	
Weight	6 lbs	6 lbs
Boxed Dim./Wt.	11.5" x 9" x 5.5" / 7 lbs	11.5" x 9" x 5.5" / 7 lbs

* **WARNING:** Must be installed by a licensed electrician following NEC and local codes.



3162119

X10 Carrier Current Compatible

**NO
MOV's**

Specifications	120 Volt Product	240 volt Product
Voltage Ratings	US 120 Volt, single phase (one hot leg & a neutral leg tied to earth ground at service entrance). Will operate over a voltage range of 85 - 175 volts with Spectrum WVR technology (MCOV=175Vac). Full load regulation 1%.	European 240 Volt, single phase (one hot leg & a neutral leg tied to earth ground at service entrance). Will operate over a wide voltage range of 85 - 280 volts with Spectrum WVR technology (MCOV=280Vac); NOT COMPATIBLE WITH U.S. 240V (with two hot legs).
	Check line wiring for hot/neutral reversal prior to connecting this filter. Hot/neutral reversal is a critical safety issue and will prevent this product from functioning effectively.	
Operating Temperature Range	0-40 deg. C	
Technology	Spectrum WVR® Wide Voltage Range filter technology	
Mode	Mode 1 applications, L-N (ground wire protection)	
Safety Certifications	CSA 22.2 No. 8-M1986, UL 1283 5 th edition	
Limiters	Series mode inductor current limiter; auto-tracking dual polarity dynamic sensing; dual dynamic filtering. Parameters optimized for switch-mode power supply protection.	
Dynamic filtering Onset	172 volts nominal, 2 volts above peak line voltage (auto-tracking- WVR). (350 volts nominal for 240v units)	
Max Surge Voltage Let-through*	130 Volts above peak line voltage @ 6,000 Volts, 3,000 Amps for ANSI C62.41 Category B3/C1 Combination Wave. (350 volts for 240 volt units)	
Max. Applied Pulse Voltage	6,000 volts (1.2 x 50 μ s – ANSI C62.41 Combination Wave)	
Max. Applied Pulse Current	>100,000 amperes applied (unlimited due to internal current limiting) (8 x 20 μ s).	
Joule Rating	Not applicable to this technology. No MOV's to wear out.	
Endurance Rating	1,000 worst case pulses: ANSI C62.41, Category B3/C1 pulses (6,000 Volts, 3,000 Amperes); >10,000 pulses at 4,000 Volts; >100,000 pulses at 2,000 Volts.	
Filter Slew Rate	5,000 volts/ μ s disturbance reduced to 28 v/ μ s within AC power wave envelope; less than 10 v/us outside the power wave envelope.	

* Note: Surge voltage let-through is the peak voltage that exceeds the powerline peak voltage

100% Surge Protection, 0% Failure • Are you Zero Surge protected?

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