

FF1W Series - NEMA1 WVR Single Phase

Models	FF1-20W-240UB
Mfg Part #	002-03073
Voltage/Hz	2-120V ac legs with neutral lines 50-60 Hz
Max. Amperage	2 @ 20 amps
Box Connectors	*Supplied by customer, to fit standard knockouts
Ground Connect	Ground screw on each chassis, attach using spade or ring terminals
Wire Connector	30 Amp Euro-connector
Over-current Protection	Must be installed on a branch circuit with 20A over-current protection
Enclosure	NEMA1 screw cover box w/ knockouts 12"H x 12"W x 4"D
Weight	15.5 lbs.
Boxed Dim./Wt.	Bulk Pack

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



(open view, not to scale)



Euro-connector (close-up)



3162119



X10 Carrier Current Compatible

Specifications		
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%.	US 240 volt single phase or 208 volt 3 phase Y systems with two hot legs and a common neutral connected to earth ground at service entrance. Will operate over a wide voltage range of 85 - 265 volts with Spectrum WVR technology (MCOV=265VAC).
	Check line wiring for hot/neutral reversal prior to connecting this filter. Hot/neutral building wiring reversal can compromise any appliance's safety and performance.	
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 5th edition, Recognized Component	
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).	
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.	
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.	
EMI-RFI Filter Response	Bi-directional, wave tracking: With 50 ohm Rgen., load: 3 dB @5 kHz; 26 dB @100 kHz; 38 dB @300 kHz.	

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

DISTRIBUTED BY: SELLCOM • 800-SELLCOM(735-5266) • 919-401-0067 • www.sellcom.com/zerosurge.html

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

Zero Surge Inc. • 889 State Route 12 • Frenchtown, NJ 08825 • Tel.: 908-996-7700 • Fax: 908-996-7773

URL: www.ZeroSurge.com • Email: info@zerosurge.com

ff1-20w-240ub_v5_sellcom