

## PURCHASE SPECIFICATION

### POWER QUALITY FILTER with Total Surge Cancellation, Wide Voltage Range, High Endurance and Noise Filtration (120 VOLT, 60 HERTZ, SINGLE PHASE, 15, 20 and 30 AMPERE) CORD-CONNECTED- MODE 1

**INTRODUCTION:** This is a purchase specification outline for high performance, 1,000 surge endurance power line filtering with Wide Voltage Range, Total Surge Cancellation (WVR-TSC) and noise filtration performance.

- This filter technology avoids fixed clamping level components such as MOVs to eliminate the poor endurance, performance and safety issues often associated with these components. Parameters that describe MOV performance limitations such as Joule rating, response time, clamp level, etc. are not relevant to this filter technology, as the damaging surge voltage is entirely eliminated from the power output, and the filter does not wear out with use.

Description	Rating	NOTES
Nominal Input Voltage	120 VAC, 50-60Hz	NEC power Standards
MCOV (Maximum Continuous Operating Voltage)	175 VAC	
Usable Voltage Range: Wide Voltage Range (WVR) technology.	85-175 VAC	Fully dynamic performance with no fixed voltage clamping components offering superior performance when used with generators and in brown-out conditions
Input current rating	15, 20 or 30 Amps	Model dependent
Overload protection		Thermal circuit breakers where applicable
Noise, Suppression circuits	Series connected transformer in "hot" leg, followed by dynamic filtering.	Surge voltage totally canceled for optimum protection.
Mode of Operation: (Avoid mode 2 and all-mode products to avoid system noise and reliability problems)	Mode 1 (Line-Neutral)	This mode protects L-N while avoiding system noise and product degradation associated with ground system contamination.
Endurance (ANSI C62.41 Standard surge)	1,000 surges- 6,000 Volt 3,000 Amp endurance rating	Filter technology does not degrade with use. No sacrificial components.
EMI/RFI Filtering	20 dB rejection at 100 kHz.	
Surge Voltage Let-Through* (ANSI 6,000V, 3,000A surge)	Less than 20 Volts peak.	The cancellation circuit effectively eliminates any surge damage potential.
Safety Agency Approvals	CSA 22.2 No. 8-M1986, UL 1283 5 <sup>th</sup> edition, UL 1363	US and Canada Safety Certified.
Packaging	Heavy gauge steel cabinet	
Outlets	2-10	Model dependent
Power cord, plug	6 ft nominal	Model dependent
Dimensions		Model dependent
Weight		Model dependent
Warranty	10 years	

\* Surge Voltage Let-Through is the peak voltage that exceeds the powerline peak voltage.