



Tier 200ACF Series

Tier-2 12020L

AC Surge Filter



The Southern Tier Technologies Tier-2 12020L AC Surge Filter features a design platform based on a unique multi-stage hybrid design. The coordinated surge and noise mitigation array makes it possible for the Tier-2 to attenuate disruptive impulses that would normally go untouched by standard clamping devices. And, its high-energy capability makes this an ideal product to protect sensitive equipment in the harshest environment.

Why Install AC Surge Filters?

High frequency noise and ringing transients generated by lightning, utility switching or an internal operation, can significantly impact your sensitive equipment. These power anomalies can easily disrupt your critical process, or over time, degrade and damage sensitive microprocessor driven equipment.

Key Specs:

- **Operating Voltage:** 120VAC
- **Operating Current:** 20A&30A
- **EMI Attenuation:**
- **Surge Capacity:** 50kA/mode, 100kA/Phase
- **Connection:** Series, Lug

Features:

- Multi-stage hybrid design; Inductor, Capacitor, Thermally Protected MOV
- LED Status Indication: Monitors all-protected modes, Form C Contacts
- 5 year warranty

Innovative Solutions for Clean, Reliable Power



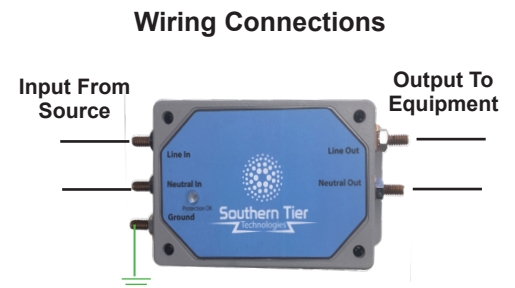
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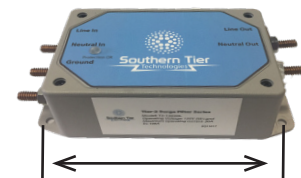
AC Surge Filter

Low-energy transients and high-frequency noise events are responsible for both disruption and long-term degradation of sensitive microprocessor driven equipment. A complete power protection strategy should include installation of a high frequency noise/surge filter at the input of your most critical equipment as well as at the output of known disruptive devices.

General Technical Specifications	
Operating Voltage	120 VAC
Maximum Operating Current	20A & 30A
Maximum Continuous Operating Voltage (MCOV)	120 VAC; 125%
Peak Surge Current Rating	20 A: 50 kA/Mode, 100 kA/Phase, 150 kA/Total
	30 A: 75 kA/Mode, 150 kA/Phase, 200 kA/Total
Connection Type	Series, Input/Output; 1/4-20 Copper Bronze Lugs
Clamping Voltage	340 VAC
Operating Frequency Range	47 - 63 Hz
EMI Attenuation	Up to 60 dB typical
Short Circuit Current Rating (SCCR)	65kAIC
Protection Modes	All Connected Modes: L-N, L-G, N-G
Technology	Hybrid technology featuring thermally protected MOVs, Inductors and Capacitors
Standards: Designed and tested to:	UL 1449 4th Edition Recognized SPD, Type 2 Component Assembly, CSA 22.2, UL 1283 Recognized Filter
Status Indication	Green LED
Dimensions (in/mm)	1.875"(H) x 3.25" (W) x 5.75" (L) (47.6 x 82.6 x 146.1 mm)
Weight (lb/kg)	12 oz (.34 kg)
Operating Temperature	-40°C to +85°C
Operating Humidity	0% to 95% non-condensing
Warranty	5 Years



Mounting



5.25"/133.4 mm



2.25"/57.2 mm

Ordering Information	
Model / Description	
T2-F1220L	120 VAC, Single Phase, 20 Amp, Lug Connection
T2-F1230L	120 VAC, Single Phase, 30 Amp, Lug Connection