



## STFV PLUS SERIES

The STFV Plus Series combines SolaHD Tracking filtration for low-energy noise and surge protection for high-energy transients. It continuously tracks the input AC power line responding instantly into action upon detecting extraneous high-frequency noise and high-voltage transients caused by everyday events such as turning on machinery, motors or equipment.

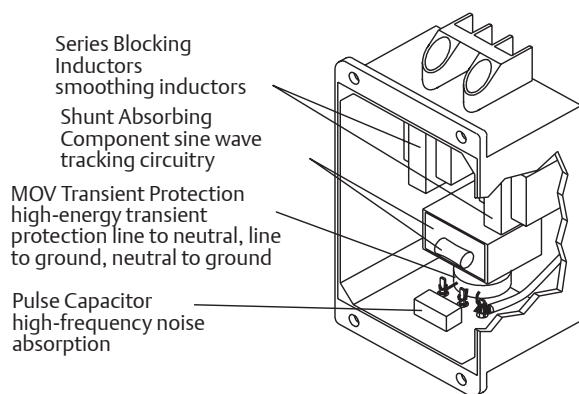
### APPLICATIONS

- Branch and Control Panels
- Factory Automation Installations
- Point of Use Industrial Service Equipment
- Programmable Logic Controllers
- Dedicated Industrial and Machine Tools
- Telecommunications and IT Equipment



### FEATURES

- Series filter/SPD technology for total durability
- High impact plastic case, epoxy encapsulated enclosure
- Transient protection in all modes (L-N, L-G, and N-G)
- Single phase applications up to 30 Amps
- Operating temperature from -40 °C to +60 °C (-40 °F to +140 °F)
- Hardwired connection
- LED power indication
- Ten year limited warranty

### SYSTEM DESIGN



### CERTIFICATIONS AND COMPLIANCES

-  Certified
  - CSA C22.2 No. 8
-  us UL Recognized Component
  - UL 1283
- RoHS Compliant

### RELATED PRODUCTS

- Power Conditioners
- Uninterruptible Power Supplies
- Power Supplies

**SOLAHD**

For product information:  
[www.solahd.com](http://www.solahd.com)  
 1.800.377.4384



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## SPECIFICATIONS

Description	Value	
Input Voltage	120 Vac Models	0-150 Vrms
	240 Vac Models	0-275 Vrms
Line Frequency	50/60 Hz	
Configuration	Single Phase (2 Wire + Ground)	
Response Time	< 5 nanoseconds	
Enclosure	High impact plastic case, 94 V-0, Vacuum impregnated magnetics, epoxy encapsulated	
Fusing	External	
Status Indication	Green LED	
Connection/Mounting Type	Series/Panel Mount	
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F) at full load Derate Linearly to 60% at +70 °C (+158 °F)	
Operating Humidity	0% to 95% Non-condensing	
Mean Time Between Failure (MTBF)	Greater than 100,000 hours (Mil. Std. 217F)	
Packaging	High impact plastic case, vacuum impregnated magnetics, epoxy encapsulated	
Peak Surge Current Capability (8x20 $\mu$ s)	Per Phase	13,000 Amps
	Line to Neutral	6,500 Amps
	Line to Ground	6,500 Amps
	Neutral to Ground	6,500 Amps
Load Surge Current Rating	10 milliseconds	5 x Nominal
	1 second	3 x Nominal
	10 seconds	2 x Nominal
Frequency Response (Forward Reverse)	100 kHz to 50 MHz	-90 dB Max
Transient Reduction * (IEEE C62.41)	Typical Category A Ringwave (6 kV, 200 A, 100 kHz)	< 10 volts peak
	Typical Category B Ringwave (6 kV, 500 A, 100 kHz)	< 50 volts peak

## SELECTION TABLE

Catalog Number	Amps	Number Min. Wire Size (AWG Suggested)	Screw Size	Fuse/Circuit Breaker Ampacity		Weight lbs (kg)	ICxxx Equivalent
				Suggest	Max		
Single phase Models (120 Vac)							
STFV02510N	2.5	26	#6	2.5	3.125	1.0 (.45)	IC102
STFV05010N	5.0	22	#6	5	6.25	1.3 (.59)	IC105
STFV07510N	7.5	18	#6	7.5	9.375	2.0 (.91)	IC107
STFV15010N	15.0	14	#8	15	18.75	3.5 (1.59)	IC115
STFV30010N	30.0	10	#8	30	37.5	6.0 (2.72)	IC130
Single phase Models (240 Vac)							
STFV02524L	2.5	26	#6	2.5	3.125	1.3 (.59)	IC202
STFV05024L	5.0	22	#6	5	6.25	2.0 (.91)	IC205
STFV07524L	7.5	18	#6	7.5	9.375	3.5 (1.59)	IC207
STFV15024L	15.0	14	#8	15	18.75	5.8 (2.63)	IC215
STFV30024L	30.0	10	#8	30	37.5	6.0 (2.72)	IC230

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