

# STEDIWATT Surg'Shield™ Series Data Sheet

For IEEE Category B & C Residential, Industrial & Commercial Applications up to 250KW

**Safety Tested and Certified to  
New UL Standard No.  
1449, 3rd Ed.**

Safety rated as SPD Types 1  
and Type 2 with the TVSS  
industries highest safety  
SCCR Rating of 200kAIC!

(SE\*) Single Element  
for each surgepath

**Remot'Alert**  
(Opt.) Provides  
Auto-remote  
'Protection  
Status Alert'



## Keeps Your Power Lean, Clean & Green!

## 'WORK-HORSE' FOR SUB-PANELS TO PROTECT and ISOLATE CRITICAL DOWNLINE EQUIPMENT!

The **Surg'Shield** Series features non-degrading, SE\* Surge Protection for downline secondary level circuits and equipment. It isolates your sensitive downline equipment from nearby switching motor loads and inhouse surges as it provides a seamless grid of pure AC power. StediWatt preserves your assets and maximizes your long-term profits!

### Key Features:

- LED's constantly monitor performance and protection status of each phase.
- Unique fuse-links maintain safety of high energy, non-degrading surge capacity.
- Designed for easy installation of lightning fast, close-coupled system protection.
- **Up to 335,000 Solid Amps of safe, single-element, non-degrading surge protection!**
- Unique Safety "Surge Cushion" Technology is Key to Eliminating 'Electrical Pollution'!

*"Made With Pride In The USA!"*

Model Number:	S-1120-3S	S-1208-4S	S-1240-3S	S-1240-4S	S-1480-3S	S-1480-4S	S-1600-3S	S-1600-4S
AC Service Types:	1Ø	3Ø WYE	3Ø Delta	3Ø Hi-Leg	3Ø Delta	3Ø WYE	3Ø Delta	3Ø WYE
Nominal AC Line Voltage (VRMS):	120/240	120/208	240/240	120/208/240	480/480	277/480	600/600	347/600
Frequency Range - USA / Euro Std:	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Single Element SE* Protection Modes:	L-N;L-L	L-N;L-L&N-G	L-L	L-N;L-L&N-G	L-L	L-N;L-L&N-G	L-L	L-N;L-L&N-G
Knock Out Size for Mounting:	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Leads: #12 AWG Stranded Copper	3+G	4+G	3+G	4+G, Hi-Leg	3+G	4+G	3+G	4+G
Max. SE* Per Mode Surge KVA:	45	45	45	45	45	45	45	45
Max. Surge Current Per Phase KVA:	90	135	135	135	135	135	135	135
Total Surge Capacity (KVA@ 8x20 µsec pulse):	154	335	218	335	218	335	218	335
Max Continuous Operating Voltage (MCOV)	150/320	150/320/320	320	150/320/320	550	320/550	680	390/680
Max. Clamping Voltage - L-L:	520	520	520	520	1175	1175	1800	1800
Max. Clamping Voltage - L-N:	390	390	N/A	390	N/A	675	N/A	1120
Max. Clamping Voltage - N-G:	390	390	N/A	390	N/A	390	N/A	1120
Warranty:	15 Years per Manufacturers Warranty Guidelines							
Enclosure Size (HxWxD):	6 ¼" X 4 ¼" X 3 ½"							
Enclosure Type:	NEMA/EEMAC Type 12 & 13 Waterproof, Explosion Proof, Spark Proof with Embedded PCB and Contacts							
Certifications:	UL / CUL Std 1449, 3rd Edition and Full Line is ETL Certified, Safety Tested and Listed							
Safety Testing Per:	UL & ANSI/IEEE C62.11, C62.41 & C62.45 Std. 587 and NEMA Std. LS-1							
Protection Status Indicators:	Lifetime Green LED Self Test Indicators For Each Phase							
Shipping Weight Lbs. (Approx.):	5.2	6	6	6	6	6	6.5	6.8

For more information on the StediWatt TVSS System Plus® visit [www.stediwatt.com](http://www.stediwatt.com), or contact Brio Power Products at 717.263.5681 or **800.345.1280**

