

# ZAPGUARD PRO

## SURGE FILTERS



Designed to provide a high degree of secondary protection to critical circuits in harsh environments, the **PowerShield ZapGuard Pro Range** of surge filters is available for pluggable as well as hard wired installations. These devices are particularly suitable for use with UPS systems, servers and specialised industrial sites.

### PORTABLE SERIES 10A | 16A

The ZapGuard series of portable filters are designed to provide secondary protection and are particularly suitable for use with plug in UPS systems, servers, instrumentation, POS systems, specialised industrial and commercial portable equipment where a high degree of protection is required.



- IEC input and output
- 2 part display
- 3 stage, 3 mode protection
- LC filter network
- Rugged IP24 enclosure
- 10A and 16A versions
- Surge protection and EMI / RFI filter
- 40kA I<sub>max</sub> L-N. 60kA all modes

### PANEL MOUNT SERIES SINGLE PHASE 40A | 63A

The 40A and 60A panel mount models are particularly suitable for use in single phase circuits with critical equipment such as UPS, control systems, IT devices etc. Status of the unit is indicated by LED indicators on the top face.

- Panel mounted surge protection & filter
- Hardwired input/output terminals
- 2 part display
- Remote alarm contacts
- 3 stage, 3 mode protection
- Metal terminal Cover (PSZTC) optional



### WALL MOUNT FILTERS, THREE PHASE 63A TO 800A

Wall Mount Surge Filters are configured in a 3 stage, 7 protection mode topology. These models are designed to provide primary AND secondary protection to key circuits with multiple loads. They provide a high degree of protection to dedicated single load devices such as UPS, servers etc which are directly connected to the filter.



- Panel mounted surge protection & filter
- Surge counter
- Rugged IP20 enclosure
- 3 phase, 3 stage, 7 mode protection
- 63A to 800A current rated
- 4 part led display
- Remote alarm contacts



AUSTRALIAN DESIGNED  
POWER PROTECTION  
SOLUTIONS



**Power  
Shield®**

**ZAPGUARD PRO PSZ PORTABLE AND PANEL MOUNTED SERIES**

| Service rating            | 10A & 16A  | 40A  | 63A      | 63A<br>Three Phase   | 125A<br>Three Phase  | 200-800A<br>Three Phase  |
|---------------------------|--|--|----------|--|--|--|
| Model Number              | PSZ10APF & PSZ16APF  | PSZ40APF   | PSZ63APF | PSZ363APF  | PSZ3125APF   | PSZ3200APF, PSZ400APF, PSZ800APF   |
| Nominal voltage Un        | 200-250Vac, Single phase, 48-62Hz  |  |          | 200-250Vac, Three phase, 48-62Hz, TT, TN systems                                       |  | 380-440Vac, Three phase, 4 wire + E, 47-60Hz   |
| Ports                     | 2 port   |  |          |  |  |  |
| MCOV Uc                   | 320Vac L-N, 255VAC N-E   |  |          |  | 350Vac L-N, 255VAC N-E   | 320Vac L-N   |
| TOV                       | 350Vac L-N   |  |          | 446Vac L-E each phase  | 440Vac/120min  | 446VAC   |
| Protection modes          | L-N, N-PE, L-PE  |  |          | L1, L2, L3-E, N-E primary<br>L1, L2, L3-N secondary                                    |  |  |
| Imax 8/20us               | 40kA L-N, 10kA L-E, 10kA N-E   | 50kA L-N, 10kA L-PE, 10kA N-E                                    |          | Primary 100kA L1,L2,L3-E<br>Common 50kA N-E<br>Secondary 60kA L1,L2,L3-N               | 150kA each mode primary<br>50kA each mode secondary  | 120kA each mode primary<br>50kA each mode secondary  |
| Inom 8/20us               | 20kA L-N, 5kA, L-E, N-E  | 50kA L-N, 10kA L-PE, 10kA N-E                                    |          | 50kA each mode primary<br>30kA each mode secondary                                     | 50kA each mode primary<br>25kA each mode secondary   | 50kA each mode primary<br>20kA each mode secondary   |
| SCW (1 sec)               | -  |  |          | 29kA   |  |  |
| Response time             | <25ns  |  |          | -  |  |  |
| Service type              | 1 Phase, Line/Neutral/Earth<br>10A or 15A IEC to IEC                                   | 1 Phase, Line/Neutral/Earth<br>40A CB or 63A CB                  |          | 3 Phase. TT, TN systems  |  |  |
| Topology                  | Stage 1. L1, L2, L3-N MOV, N-E GA<br>Stage 2. Low pass LC network<br>Stage 3. L-N MOV. |  |          | Stage 1. L1, L2, L3-E MOV, N-E GA<br>Stage 2. Low pass LC network<br>Stage 3. L-N MOV. | Stage 1. L1, L2, L3-N MOV, N-E GDT<br>Stage 2. Low pass LC network<br>Stage 3. L-N MOV/GDT | Stage 1. L1, L2, L3-N MOV,s N-E Spark Gap<br>Stage 2. Low pass LC network<br>Stage 3. L1, L2, L3-N MOV,s |
| Location category         | Indoor   |  |          |  |  |  |
| Degree of protection      | IP24   | IP20   |          | IP20   | IP20   | IP50   |
| Thermal dissipation       | -  |  |          | 120W each phase @ full load, 3 phase, 63A  | 750W @ full load, 3 phase, 125A  | 120W @ full load, 3 phase, 400A  |
| Termination size          | -  | Single-strand 35mm <sup>2</sup> ; multi-strand 25mm <sup>2</sup> |          |  |  | Bolt on M10 lugs 400A and 800A   |
| Mounting                  | Portable   | Wall mounting  |          |  |  |  |
| Operating temp            | -10°C to +50°C   | -10 to 60°C, 0 to 90%RH (non-condensing)                         |          |  |  | -10 to 70°C, 5 to 95%RH (non-condensing)   |
| Dimensions D x W x H (mm) | 152 x 133 x 55   | 220 x 143 x 48   |          | 510 x 370 x 140  | 520 x 520 x 170  | 900 x 760 x 245  |
| Weight (kg)               | 0.8  | 2  |          | 18   | 34   | 80   |
| Indicators                | 2 x LEDs. Blue OK. Red Failure   |  |          | 4 part display. Blue OK  | 4 part display. On OK. Off fault   | 7 part status display showing primary and secondary protection status                                    |
| Alarms                    | -  | Dry contact relay. NC/Com/NO. 250Vac/32Vdc, 5A                   |          |  |  |  |

\*Specifications are subject to change without prior notice.