

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_{max} L-N. 60kA all modes



Panel Mount Series

Single Phase 32A | 40A

The **32A and 40A panel mount models** are particularly suitable for use in 32A and 40A 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.



Wall Mount Filter

Three Phase 63A

The **63A surge filter** is configured in a 3 stage, 7 protection mode topology. This model is designed to provide primary AND secondary protection to key circuits with multiple loads. This model provides 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
- 100kA I_{max} primary, 60kA secondary
- Surge counter
- Rugged IP20 enclosure
- 3 phase, 3 stage, 7 mode protection
- 63A series current rated
- 4 part led display
- Remote alarm contacts



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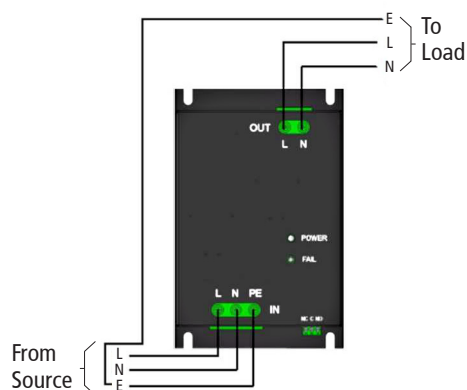


ZAPGUARD PRO PSZ PORTABLE AND PANEL MOUNTED SERIES

Service rating	10A & 16A	32A & 40A	63A - Three Phase
Model Number	PSZ10APF & PSZ16APF	PSZ32APF & PSZ40APF	PSZ363APF
Nominal voltage Un	200-250Vac, Single phase, 48-62Hz		200-250Vac, Three phase, 48-62Hz, TT, TN systems
Ports	2 ports series connected		
MCOV Uc	320Vac L-N, 255VAC N-E		
TOV	350Vac L-N		446Vac L-E each phase
Protection modes	L-N, N-PE, L-PE		L1, L2, L3-E, N-E primary L1, L2, L3-N secondary
I _{max} 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 Common 50kA N-E Secondary 60kA L1,L2,L3-N
I _{nom} 8/20us	20kA L-N, 5kA, L-E, N-E	50kA L-N, 10kA L-PE, 10kA N-E	50kA each mode primary 30kA each mode secondary
I _{imp} 10/350us	Not applicable		20kA L-E primary
SCW (1 sec)	Not applicable	80A	29kA
Reponse time	<25ns		
Service type	1 Phase, Line/Neutral/Earth 10A or 15A IEC to IEC	1 Phase, Line/Neutral/Earth 32A or 40A CB	3 Phase, Line/Neutral/Earth 63A CB TT, TN systems
V _{pl} Up	<1.1kV L-N @3kA	<1.2kV L-N @3kA	
Leakage current	<5mA		
Filter attenuation	>40dB at 1MHz	>60dB @ 1MHz	>3dB@10kHz, >20dB@120kHz, >48dB @ 1MHz
Enclosure material	Powder coated steel		
Max external disconnecter	10A & 16A GPO	32A or 40A HRC fuse or MCB	63A AgL fuse, 500V, 50KAIC OR 63A MCB, C curve, 500V, 50KAIC
Internal protection	Series thermal fusing on primary MOVs		32A HRC fuse L-E each phase plus internal thermal fuses on all MOVs
Topology	Stage 1. L1, L2, L3-N MOV, N-E GA Stage 2. Low pass LC network Stage 3. L-N MOV.		Stage 1. L1, L2, L3-E MOV, N-E GA Stage 2. Low pass LC network Stage 3. L-N MOV.
Location category	Indoor		
Degree of protection	IP24	IP20	IP24
Thermal dissipation	Not applicable		120W each phase @ full load, 3 phase, 63A
Max termination size	Not applicable	Single-strand 35mm ² ; multi-strand 25mm ²	
Mounting	Portable	Wall mounting	
Operating temp	-10°C to +50°C	-10 to 60°C, 0 to 90%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
Weight (kg)	0.8	2	18
Indicators	2 x LEDs. Blue OK. Red Failure		4 part display. Blue OK
Alarms	Not applicable	Dry contact relay. NC/Com/NO. 250Vac/32Vdc, 5A	

Connection Diagrams

PSZ32APF and PSZ40APF



PSZ3/63APF

