

# 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

The **40A panel mount model** is particularly suitable for use in 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 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



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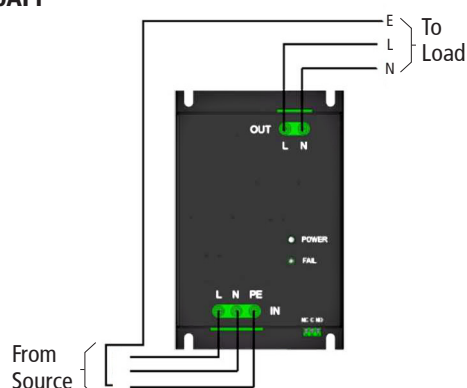


www.powershield.com.au

ZAPGUARD PRO PSZ PORTABLE AND PANEL MOUNTED SERIES					
Service rating	10A & 16A	40A	63A - Three Phase	125A - Three Phase	200-800A - Three Phase
Model Number	PSZ10APF & PSZ16APF	PSZ40APF	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 L1, L2, L3-N secondary		
I <sub>max</sub> 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	150kA each mode primary 50kA each mode secondary	120kA each mode primary 50kA each mode secondary
I <sub>nom</sub> 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	50kA each mode primary 25kA each mode secondary	50kA each mode primary 20kA each mode secondary
SCW (1 sec)	-	80A	29kA		
Response 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. TT, TN systems		
Vpl	Please refer to full product data sheet on website.				
Leakage current					
Filter attenuation					
Enclosure material					
Max external disconnecter					
Internal protection					
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.	Stage 1. L1, L2, L3-N MOV, N-E GDT Stage 2. Low pass LC network Stage 3. L-N MOV/GDT	Stage 1. L1, L2, L3-N MOV, N-E Spark Gap Stage 2. Low pass LC network Stage 3. L1, L2, L3-N MOV, N-E	
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			

## Connection Diagrams

PSZ40APF



PSZ3/63, 125, 200, 400 and 800APF

