

Active Harmonic Filter

PSAF300

Having Power Survey as your Power Quality partner gives you access to the most advanced compensation technology in the world. The Power Survey Active Filter (PSAF) can be used for harmonic mitigation, resonance, flicker, load balancing and dynamic compensation. Using advanced voltage control and available in 480V and 600V designs, PSAF Technology is an industry leader. The PSAF Technology is combined with an easy-to-use web interface with integrated supervision, control and logging. This makes it easy to integrate with any IT network. Power Survey Active Filter technology is not only part of the smart grid, but an important building block, and a step towards clean efficient power.



Minimized disturbances: Eliminating power feedback and improving its efficiency reduces wear on equipment and components, minimizing downtime for service.

Lower energy costs: Minimized disturbances means less energy consumption.

Adapts to your needs: No need for adjustment or equipment changes, saving time and money.

Modular design: Modules can be added or moved as needs change, providing greater flexibility.

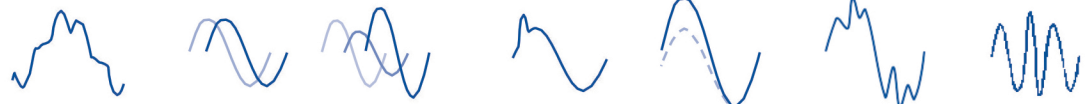
Corrects multiple disturbances: The PSAF can also correct a multitude of power issues that standard harmonic filter technologies do not address.

Lowered CO2 emissions: More efficient use of energy lowers the CO₂ and contributes positively to the company's environmental image, which can also create competitive advantages.

Reduced environmental impact: With less wear on equipment, customers enjoy the benefits of better working equipment over its entire service life.

Avoid oversizing: Comply to energy efficiency index and align to upcoming power efficiency guidelines for motor systems.

Key Industries



	Harmonics	Reactive Power	Network Unbalance	Transients	Voltage Variations	Flicker	Resonances
VFD Drives applications	●	○	○	○	○	○	●
Process industries	●	●	●	●	●	●	●
Pumps (water treatment)	●	●	○	●	●	●	●
Spot welding	●	●	●	●	●	●	●
Data centers	●	●	○	○	○	○	○
Marine	●	●	●	●	●	●	●
Oil and Gas industries	●	●	○	●	○	●	○
Mining & Metal	●	●	○	●	●	●	○

General Specifications

Model	PSAF P300-110/480-UL (PSAF P300-90/600-UL)	PSAF P300-220/480-UL (PSAF P300-180/600-UL)	PSAF P300-330/480-UL (PSAF P300-270/600-UL)
Rated power *	76 / 91 / 94 kVA	152 / 183 / 187 kVA	229 / 274 / 281 kVA
Compensation current capacity at 50/60 Hz	110 A _{RMS} (90 A _{RMS})	220 A _{RMS} (180 A _{RMS})	330 A _{RMS} (270 A _{RMS})
System voltage **	480 V (208 – 480 V), 600 V (480 – 600 V)		
Nominal frequency **	50/60 Hz ± 2 %		
Number of phases	3 phase 3 wire		
Connection type	3 phase without neutral (TN, TT, IT)		
Harmonic current compensated	individual compensation up to 49 th order		
Rate of harmonic reduction	better than 98 %		
Current compensation of cos φ	up to 1.0		
Expandability	PSAF P300 units can be used in parallel		
Response time	< 1 ms		
Power dissipation 480 V (690 V)	< 2480 W (< 2836 W)	< 4835 W (< 5547 W)	< 7190 W (< 8258 W)
Maximum air flow requirement	353 CFM	706 CFM	1056 CFM
Noise level	< 60 dB		
Environment	0 to 95 % RH non-condensing, max altitude 3281 ft.		
Operating temperature	0 to 50 °C (32 to 122 °F), up to 50 °C (104 °F) without derating		
Dimensions	36 x 94 x 36-inch (914 X 2388 X 914 –mm) (W x H x D)		
Weight 480 V & 690 V	430 kg (950 ib.)	570 kg (1260 ib.)	720 kg (1580 ib.)
Cabinet color	Grey (ANSI 61)		
Protection class	NEMA 1		
Electromagnetic compatibility	EN 61000-6-2, EN 61000-6-4		
Certificates	CE, cUL		

* Compensation power at 400 V / 480 V / 600 V nominal voltage

** Please state your system voltage and line frequency when ordering

Your Representative:



POWER SURVEY
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