

**NIETZ**



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Touch Your Success

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# ACTIVE POWER FILTER

Achieve perfect power quality



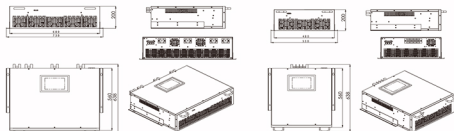
The **Active Power Filter (APF)** is mainly composed of controller, isolation switch (circuit breaker), contactor, IGBT, driving circuit, protection system, fuse, connection reactor, DC capacitor, etc. The controller measures phase A, C reactive power(current), produces control signal, drives IGBT on/off and produces harmonic and reactive current same as system harmonic current but in opposite phase to filter system harmonic, reduce reactive power and keep system power factor approximately at 1.

Our APF equipment is module structure, there are two types Wall Mounted and cabinet mounted. The Wall Mounted type is preferred to be used in equipment improvement which is very convenient to install.

The NIETZ Modular Active Harmonic Filter series are suitable for applications of all types, providing harmonic mitigation, load balancing and step-less reactive power compensation for inductive and capacitor loads.



Item	APF	30A			50A			100A			150A			SVG (kVa)					
		30	50	75	100	150	30	50	75	100	30	50	75	100					
Specifications	Module specification	16																	
	Number of parallel possibilities	16																	
Input	Work voltage	400V/690V(-20%~+15%)																	
	Work frequency	50Hz(-10%~+10%)																	
	Current transformer	100.5-10000.5																	
Output	600 width	450A						300 Kvar											
	800 width	900A						600 Kvar											
Function	To compensate the harmonic	2-50 times						{50 percent of the rated current}											
	Harmonic filtration rate	>97%																	
	Reactive power compensation	-1~+1 adjustable																	
	Compensate for three imbalances	100%Full compensation for imbalance																	
	communication mode	RS232; RS485; ModBus; TCP/IP optional																	
communication protocol	communication interface	Rs485, net mouth																	
	upper machine software	Have, all parameters are set through the upper computer																	
	Failure warning	Have, Record up to 500 alarm messages																	
	Monitoring	Support each module independent monitoring																	
Technical indicators	Full response time	<10ms																	
	Active loss	<3%																	
	the cooling way	Intelligent air cooling																	
	Noise	<60dB																	
	sampling/control frequency	2000HZ																	
	Equivalent Switch frequency	43.2kHz																	
	cutoff frequency of current loop	6.4kHz																	
Mechanical properties	protection function	overpressure, under voltage, over heating, Over current, a short current, etc.																	
	CT installation position	The load side/The grid side optional																	
	hanging size	The wall hanging is the same size as the module																	
Environmental requirement	Module weight	25Kg(±75A/50kvar)50kg(±100A/100kvar)																	
	color	Fine orange lines.																	
Environmental requirement	Working temperature	-10°C~+45°C																	
	An altitude of	<1500 Meters																	
	Relative humidity	<99% no lon																	
	protection grade	Ip20																	

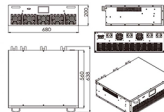


APF/SVG Dimension of Wall Mounted (100A/150A/100 kVa)

APF/SVG Dimension of Wall Mounted (50A/75A/50 kVa)

### Dimension info. Of APF

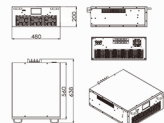
Products	400V, Active Power Filter (APF)				
	30A	50A	75A	100A	150A
Power of Module	either will do Wall Mounted and Rack				
Type of mounting	600x800x2200		800x800x2200		
	800x800x2200		800x1000x2200		
	800x1000x2200		1000x800x2200		
	1000x800x2200		1000x1000x2200		
	1000x1000x2200		/		
Number of parallel possibilities	max. 16 units				
Max. power for width 600 models	6x75A=450A		/		
Max. power for width 800 models	/		6x150A=900A		



APF/SVG Dimension of Power Module (100A/150A/100kvar)

### Dimension info. Of SVG

Products	400V, Static Var Generator (SVG)		
	30 kVa	50 kVa	100 kVa
Power of Module	30 kVa	50 kVa	100 kVa
Compensate for unbalanced current	45A	75A	150A
Compensate for Harmonic current	25A	40A	80A
Type of mounting	either will do Wall Mounted and Rack		
Dimension (WxDxH)	600x800x2200		800x800x2200
	800x800x2200		800x1000x2200
	800x1000x2200		1000x800x2200
	1000x800x2200		1000x1000x2200
	1000x1000x2200		/
Number of parallel possibilities	max. 16 units		
Max. power for width 600 models	6x50kVa=300kVa		/
Max. power for width 800 models	/		6x100kVa=600kVa



APF/SVG Dimension of Power Module (50A/75A/50kvar)

APF - 400 - 100A - 3L

APF - Active Power Filter Module  
SVG - Static Var Generator Module

400 - 400 Voltage  
690 - 690 Voltage

3L - 3 phase, 3 wires  
4L - 3 phase, 4 wires

Output capacity  
APF - A  
SVG - kVa