



Various application



Excellent filtering performance



Excellent protection for equipment and system



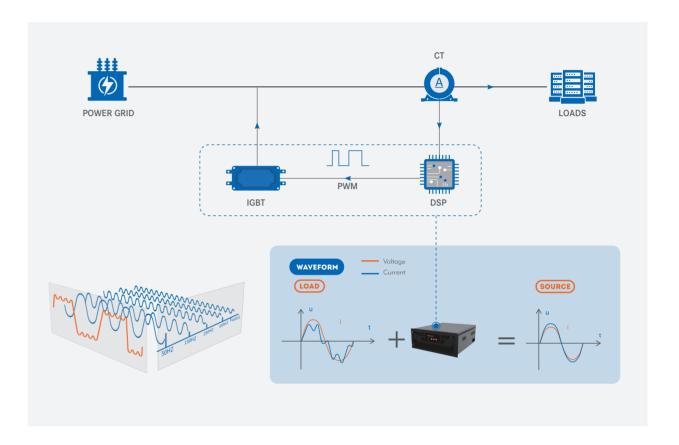
User-friendly HMI

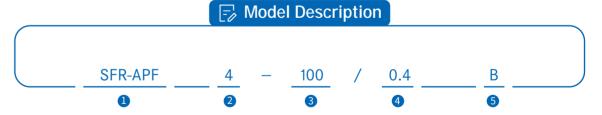


SFR-APF active harmonic filter is a new type of power quality improvement production for dynamically filtering harmonics and compensating reactive power. It can filtering and compensate harmonic (variable in orders and frequency) and dynamic reactive power in real time. It is used to overcome the shortcomings of conventional harmonic suppression and reactive power compensation methods such as passive harmonic filters, and achieve the harmonic filtering function and reactive power compensation function of the system. SFR-APF active harmonic filter is widely used in power, metallurgy, petroleum, port, chemical industry and industrial and mining enterprises.

■ Overview

The increase in power energy productivity has improved the standard of living, and most of the electrical loads used in the intelligent power consumption are nonlinear nowadays. Harmonic current is generated by these nonlinear loads, and is formed by the superposition of countless sinusoidal currents whose frequencies are integer multiples of the fundamental current. When all the waveforms are superimposed, they will become distorted waveform.





Annotation:

- Model of the manufacturer
- Wiring mode: 3-Three-phase three-wire 4-Three-phase four-wire
- 3 Compensation capacity(A): 15A/30A/50A/75A/100A/125A/150A
- 4 Voltage level(kV)
- Installation mode:
 M-Rack-mounted type, B-Wall-mounted type

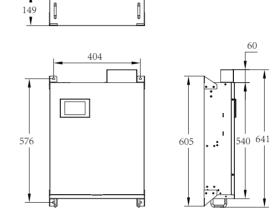
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Item		Parameter		
SFR-APF	Grid	208V, 400V 3P3W/3P4W* 690V 3P3W		690V 3P3W
	Mounting Type	Wall-mounted	Rack-mounted	Floor model
System	Rated Input	208V, 400V ±10% 690V ±10%		
	Power Grid Frequency	50/60Hz ±5%		
	Parallel Operation	8 modules, customizable		
	Overall Efficiency	≥97%(laboratory data)		
	Circuit Topology	3-level		
Performance Indicators	Rated Capacity	15-150A 100A/125A/150A		
	Compensation Mode	Harmonic, reactive power, unbalance		
	Filtering Range	2 to 51 orders		
	Filtering Order	Selectable from 2 to 51		
	Filtering Degree	Adjustable from 2 to 51		
	Reaction Time	<100µs		
	Response Time	<5ms		
	Target Power Factor	Adjustable from -1 to +1		
	Control Algorithm	FFT, Intelligent FFT and instantaneous reactive power		
	Switching Frequency	20kHz		
	Cooling Mode	Forced air cooling		
	Noise Level	≤65dB		
Communications & Display	Communications Port	RS485		
	Communications Protocol	Modbus-RTU		
	Module Display Interface	4.3in LCD	LED indicator	LED indicator
	Protection Function	Automatic current limit protection for power grid over-voltage and under-voltage, power gridoxer frequency and under-frequency, inverted sequence of input voltage, over-current, over-heating an over-load, and busbar short-circuit.		
	Monitoring Alarm	Available		
	Monitoring	Independent monitoring and centralized monitoring		
Ambient Standards	Altitude	1,000m, for every increased 100m, the power is reduced by 1%.		
	Operating Temperature	-20°C-45°C		
	Relative Humidity	5% to 95%,non-condensing		
	Protection Class	IP20		
Related Standards	Directive	2014/30/EU 2014/35/EU		
	Standards Compliance	EN 61000-6-2:2005+AC:2005 EN 61000-6-4:2007+A1:2011 EN 50178:1997 IEEE519		

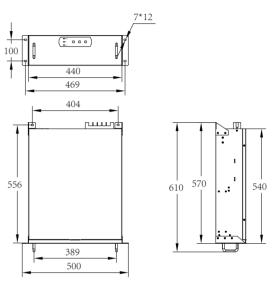
^{*:} Please check other voltage levels, such as 480V, in the specifications of user manual.

Dimensions

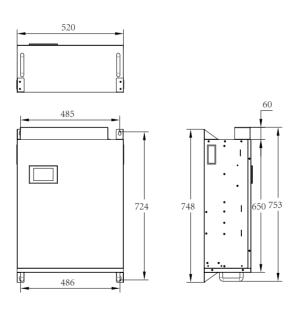
50-75A Wall-mounted



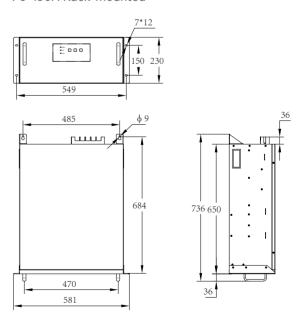
50-75A Rack-mounted



76-150A Wall-mounted



76-150A Rack-mounted



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