

Active Harmonic Filtration System



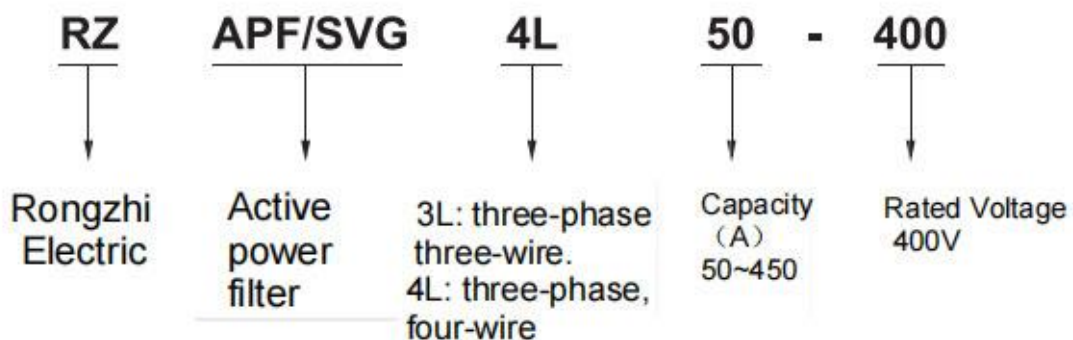
Rongzhi Electric Power is a large-scale Active Harmonic Filtration System manufacturer and supplier in China. We have been specialized in High voltage equipment for many years. Our products have a good price advantage and cover most of the South America, Middle East, Africa, Southeast Asia markets. We look forward to becoming your long-term partner in China.

Rongzhi Active Harmonic Filtration System Introduction

Active power filter (APF: Active power filter (Active power filter) is a new type of power electronic device used for dynamic suppression of harmonics and compensation of reactive power. It can quickly track and compensate harmonics of different sizes and frequencies. The reason why it is called active is that compared with passive LC filter, it can only passively absorb harmonics of fixed frequency and size. APF can control and actively output the size, frequency and phase of current by sampling load current and separating each harmonic and reactive power, and quickly respond to offset the corresponding current in the load, realizing dynamic tracking compensation, and can complement both harmonic and reactive power and unbalance.

Rongzhi Active Harmonic Filtration System Model

Instruction



Rongzhi Active Harmonic Filtration System Parameter (Specification)

Size	400V
	50A-450A
Rated input line voltage	380V(-40%~+20%)
Power frequency	50/60Hz(Range45Hz~62Hz)
Number of Parallelable	unlimited
overall efficiency	≥97%
Power network structure	Three phase three wire four phase four wire
Current transformer	150/5~10000/5
circuit topology	Three level
performance index	
harmonic compensation	support
reactive compensation	support
unbalance compensation	support
harmonic range	>97%
fast response time	<100us
total reponse time	<10ms

Target power factor	Capacitive sensibility is continuously adjustable
Switch frequency	10kHz
Cooling Type	Intelligent air cooling
noise label	<65dB
communication interface	RS485, CAN, network interface
communication agreement	General electric protocol. Modbus protocol
Module display interface	LCD multi-function touch color screen
Protection function	Protection of overvoltage .short circuit, inverter reverse and over compensation
Fault Alarm	Yes
Environmental requirement	
Altitude	≤ 1500mm,Between 1500 and 4000m, according to GB/T3859-2, every 100m increase, the power is reduced by 1%
Operating temperature	-10℃~+40℃
Relative humidity	5%~95%, without condensation
Protection Grade	Other IP levels can be customized

Rongzhi Active Harmonic Filtration System Performance description

It can simultaneously filter out 2 to 60 harmonics

Response load variation within 40μs, full response time less than 10ms(1/2 cycle wave)

Single-phase dynamic compensation is not affected by system unbalance 3.8-inch QVGA display,

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MODBUS communication interface active power filter

Adopt IGBT with speed up to 20KHz to eliminate harmonics perfectly

Parallel installation mode, simple installation, convenient, easy to expand, up to 10 parallel

Rongzhi Active Harmonic Filtration System Information



Rongzhi Active Harmonic Filtration System advantage

- 1.SPA3 is the perfect solution for harmonic control
- 2.Dynamic current compensation eliminates harmonics and improves power factor
- 3.Reduce the heating of harmonics in cables, switches and transformers
- 4.Reduce power failure and time caused by harmonics
- 5.Improve power utilization and reduce operating costs