

## Active Harmonic Filter AHF



Rongzhi Electric Power is a large-scale Active Harmonic Filter AHF 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 about us Active Harmonic Filter AHF

Zhejiang Rongzhi Electric Co., Ltd. was founded in 2012. After 8 years of development, it has become a rising star in domestic high voltage solid state soft starter industry. The e product line covers complete sets of power distribution equipment such as high voltage solid state soft starting, high voltage shunt capacitors, ring network cabinet, opening and closing stations, etc. The products are well known in major provinces and regions across the country, and deeply trusted by users.

Rongzhi takes the lead in the industry in China to pass ISO9001 quality system certification, ISO14001 environmental system certification and OHSAS18001 occupational health and safety management system certification. Its products have passed the type test of "Electrical Safety Quality Supervision and Inspection Center", and a number of patent technologies are being applied for.

Rongzhi people adhering to the business philosophy of "internal management, external reputation, quality society Generte, brand win", pragmatic innovation, pioneering, to make new and greater contributions to the prosperity of China's electric power industry, to realize the "national rejuvenation, the Chinese dream".

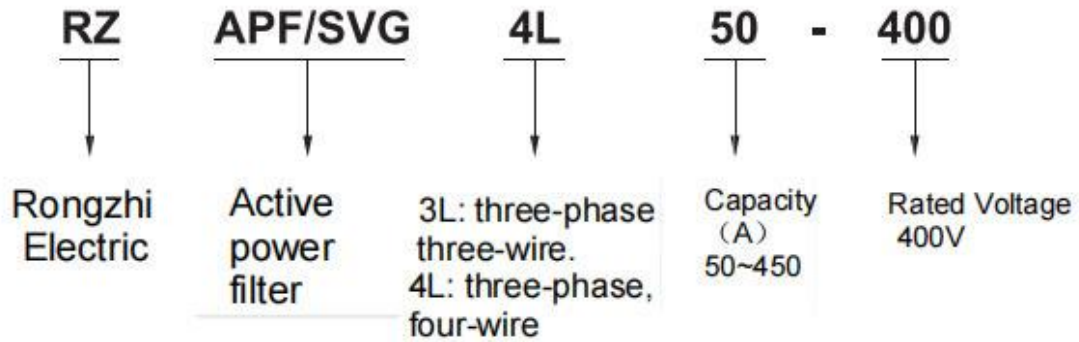


## Rongzhi Active Harmonic Filter AHF Working principle

The active filter detects the load current in real time through the external current transformer CT, and extracts the harmonic components of the load current through the Zhejiang Rongzhi Electric CO.,LTD.

internal DSP calculation. Then the PWM signal is sent to the internal IGBT to control the inverter to generate a current equal to the load harmonic and in the opposite direction into the power grid to compensate the harmonic current, to achieve the filtering function.

## Rongzhi Active Harmonic Filter AHF Model Instruction



## Rongzhi Active Harmonic Filter AHF 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°C~+40°C
Relative humidity	5%~95%, without condensation
Protection Grade	Other IP levels can be customized

## Rongzhi Active Harmonic Filter AHF Qualification Honor

Excellent quality products are the the foundation for us to stand out in the industry competition. we strictly control the quality of all products and each component with the most advanced international quality management technology Regularly organize professional training for quality management personnel, do our best to ensure perfect quality . For many years, we uphold the business principle that “ quality is our life, reputation is the basis , strictly implement ISO9001Management system of international quality system



## **Rongzhi Active Harmonic Filter AHF Advantages and disadvantages**

Advantages: the harmonic can be dynamically filtered out, the harmonics in the system can be completely absorbed; It doesn't resonate.

Disadvantages: high cost; Due to hardware limitations, it cannot be used in large-capacity situations: the capacity of active filter should not exceed 100KVA per set, and the maximum applicable grid voltage should not exceed 690V.