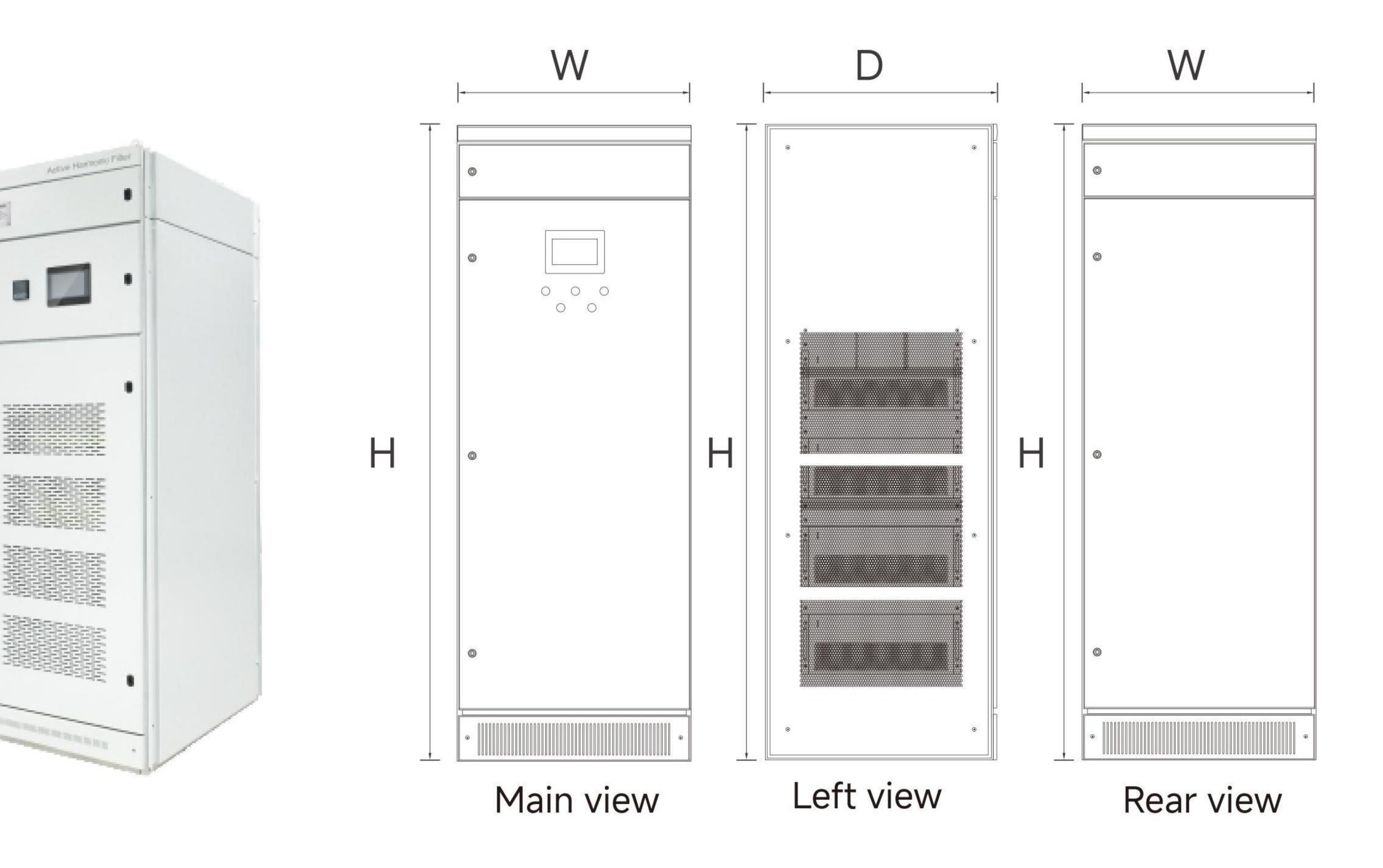


### Product size

#### Cabinet



Cabinet device model							
Model Number	Compensation capacity (kvar)	System voltage (V)	Dimensions (D*W*H)	Cooling method			
GY AHF-0.4-100A/4L-C	100	380±20%	800*1000*2200mm				
GY AHF-0.4-150A/4L-C	150	380±20%	800*1000*2200mm				
GY AHF-0.4-200A/4L-C	200	380±20%	800*1000*2200mm				
GY AHF-0.4-250A/4L-C	250	380±20%	800*1000*2200mm	Forced air cooling			
GY AHF-0.4-300A/4L-C	300	380±20%	800*1000*2200mm	i orcca an cooming			
GY AHF-0.4-400A/4L-C	400	380±20%	800*1000*2200mm				
GY AHF-0.5-300A/4L-C	300	500±20%	800*1000*2200mm				
GY AHF-0.69-300A/4L-C	300	690±20%	800*1000*2200mm				



## 

# Active Harmonic Filter

# GY AHF

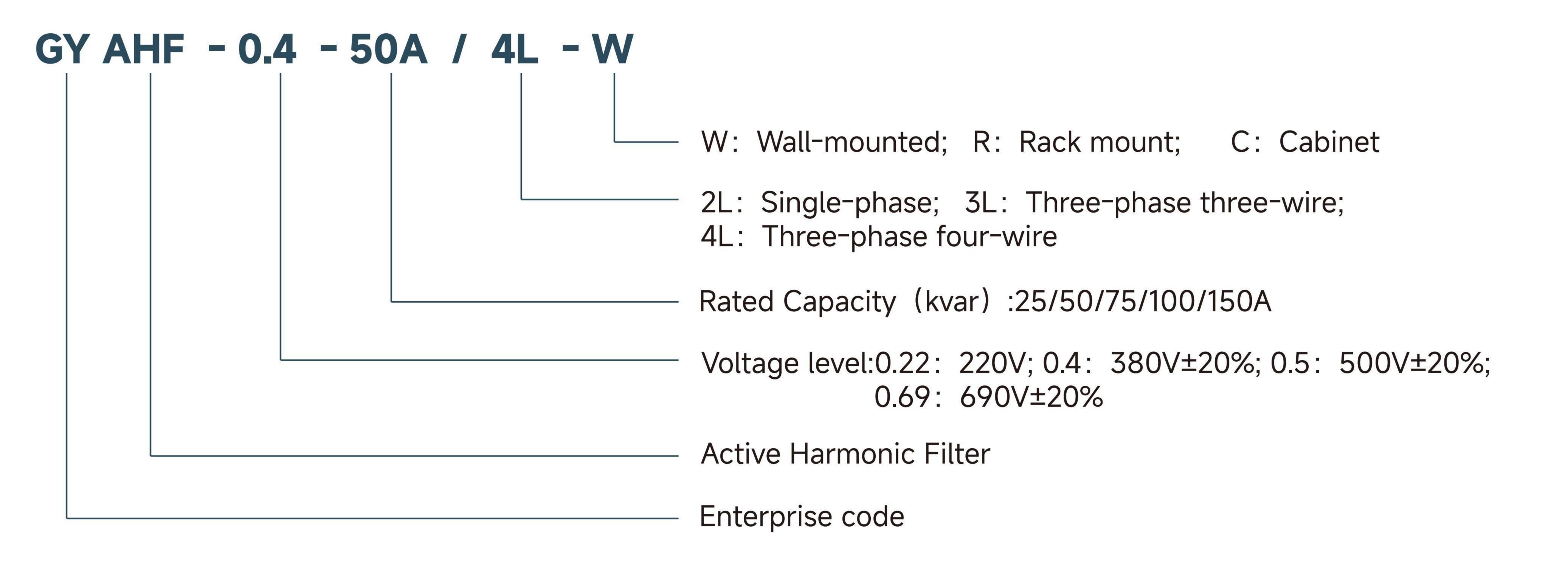
The working principle of the IGY AHF series active power filter is to detect the load current in real time, separate the harmonic currents one by one based on the specified harmonic current detection algorithm, and generate control signals according to the set filtering percentage to drive the IGBT output and the load harmonic current amplitude, compensation currents with the same value and opposite phase achieve the purpose of harmonic cancellation.





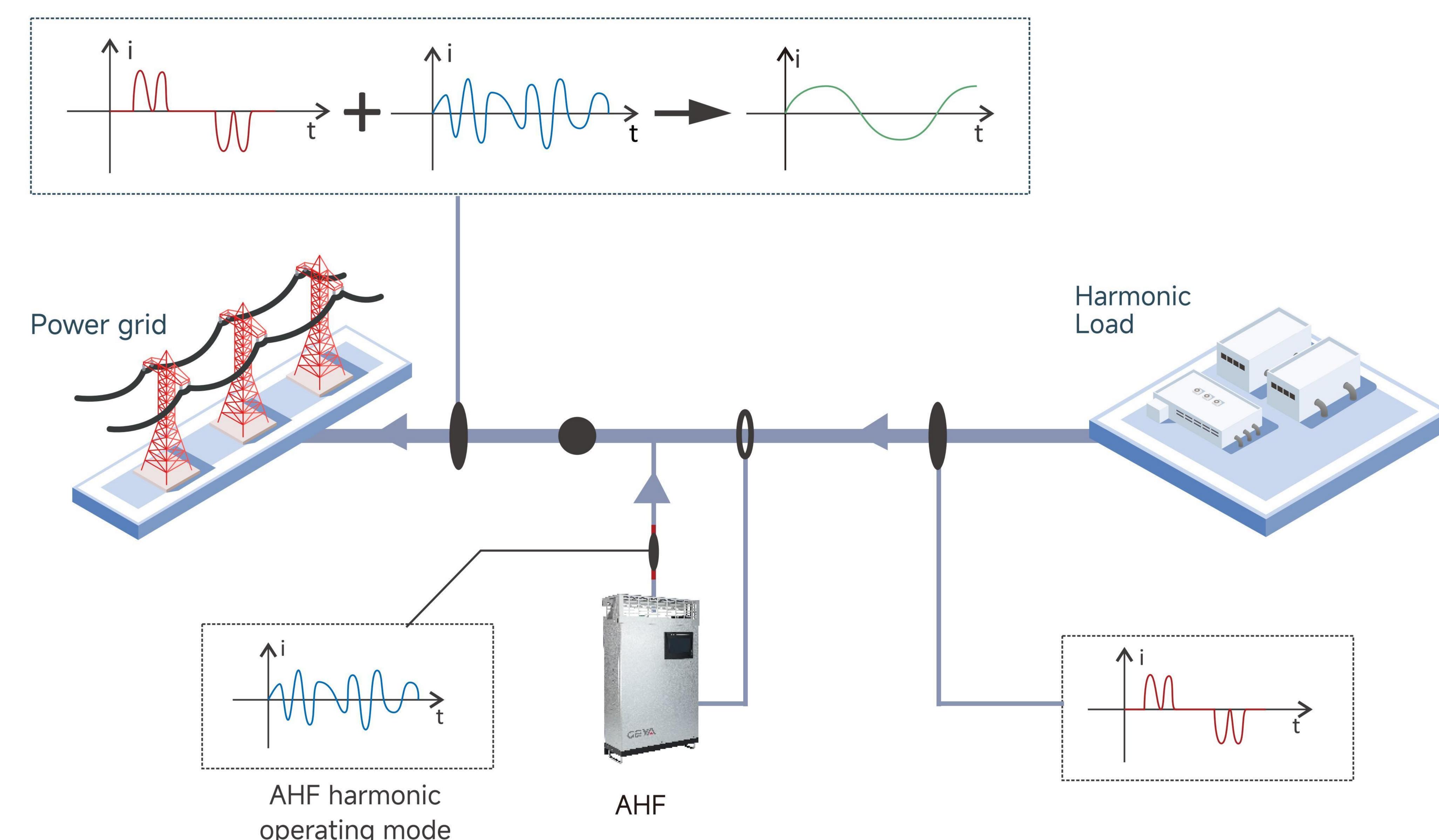






#### Features

- Use DSP+CPLD all digital control core, three-level topology technology, advanced harmonic detection algorithm and PWM control strategy to achieve accurate compensation of harmonic current.
- Adopt modular design, which facilitates parallel connection of multiple modules, takes up little space and is easy to maintain.
- The structural design of independent air ducts and independent warehouses ensures the stable operation of the equipment.
- It can filter harmonics in a wide range of harmonics, from 2 to 50 harmonics, and solve the problem of threephase unbalance at the same time.
- The harmonic filtering rate is high. If the capacity allows, the harmonic current filtering rate can be as high as 95%.
- 🔳 Set 100% current limiting output to ensure long-term stable operation of the equipment.









AHF

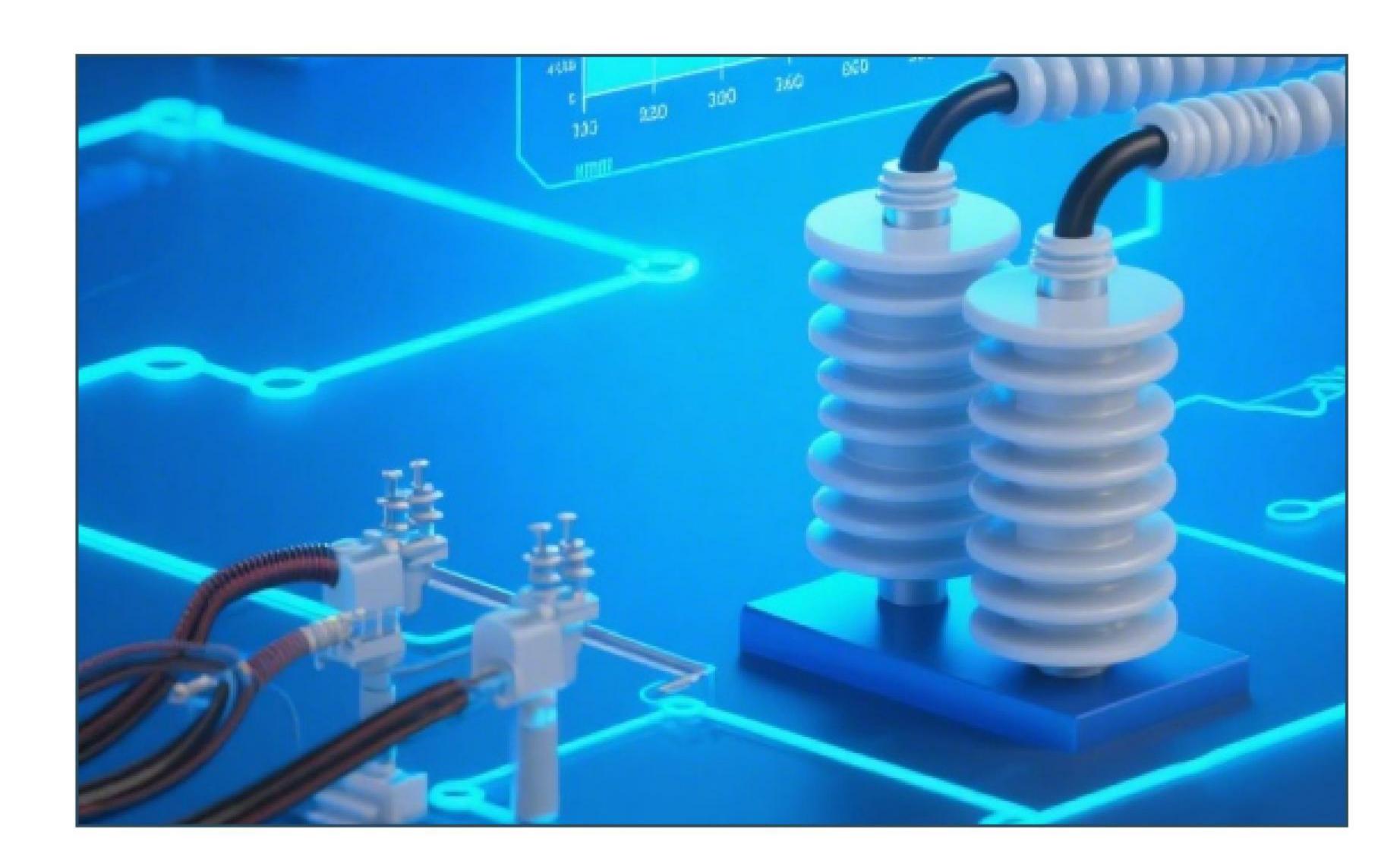
# Active Harmonic Filter

# Main advantage



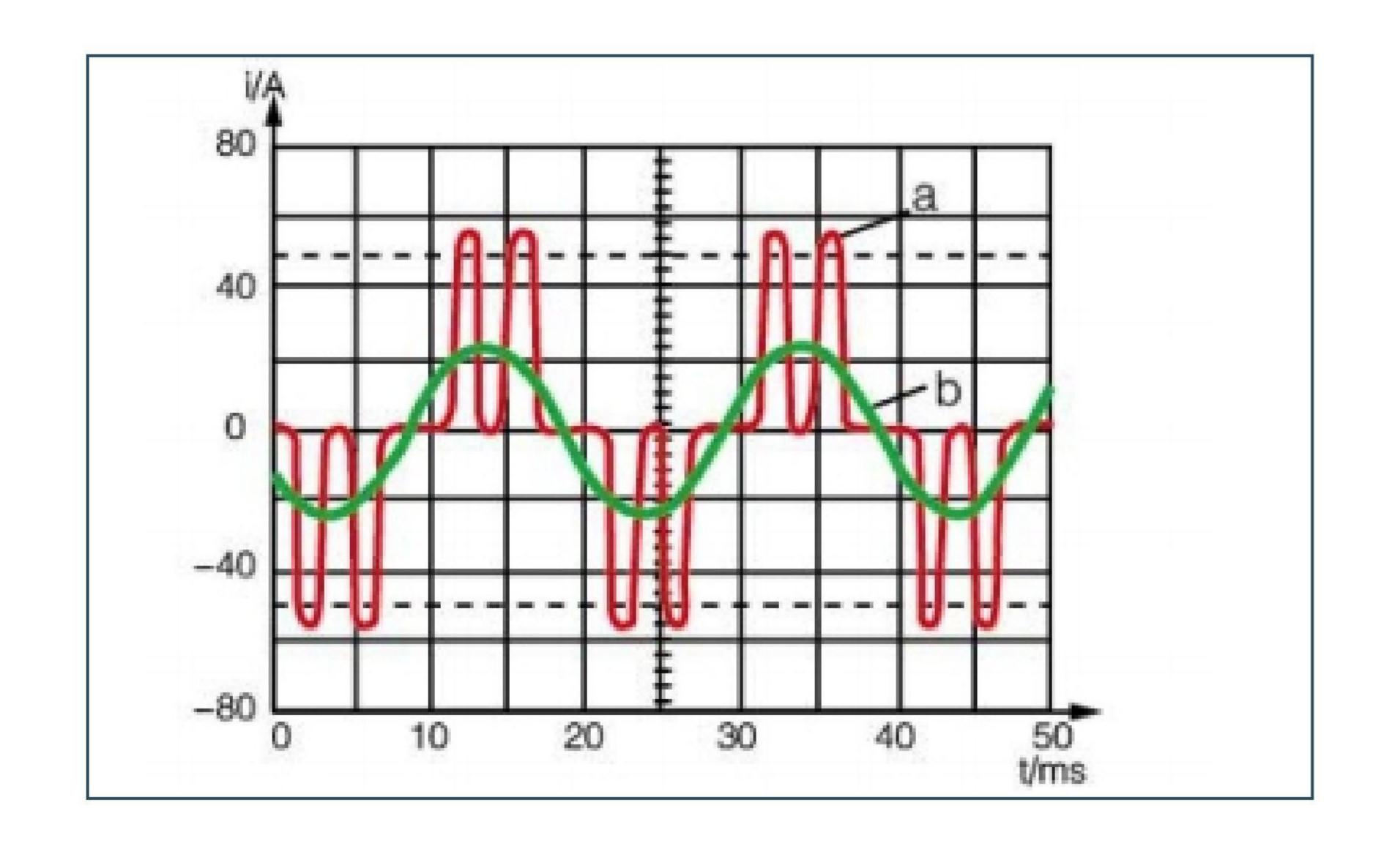
# UI Wide frequency range

A wide range of harmonic frequencies can be filtered. Filter 2–71 harmonics



## Uu Stabilize

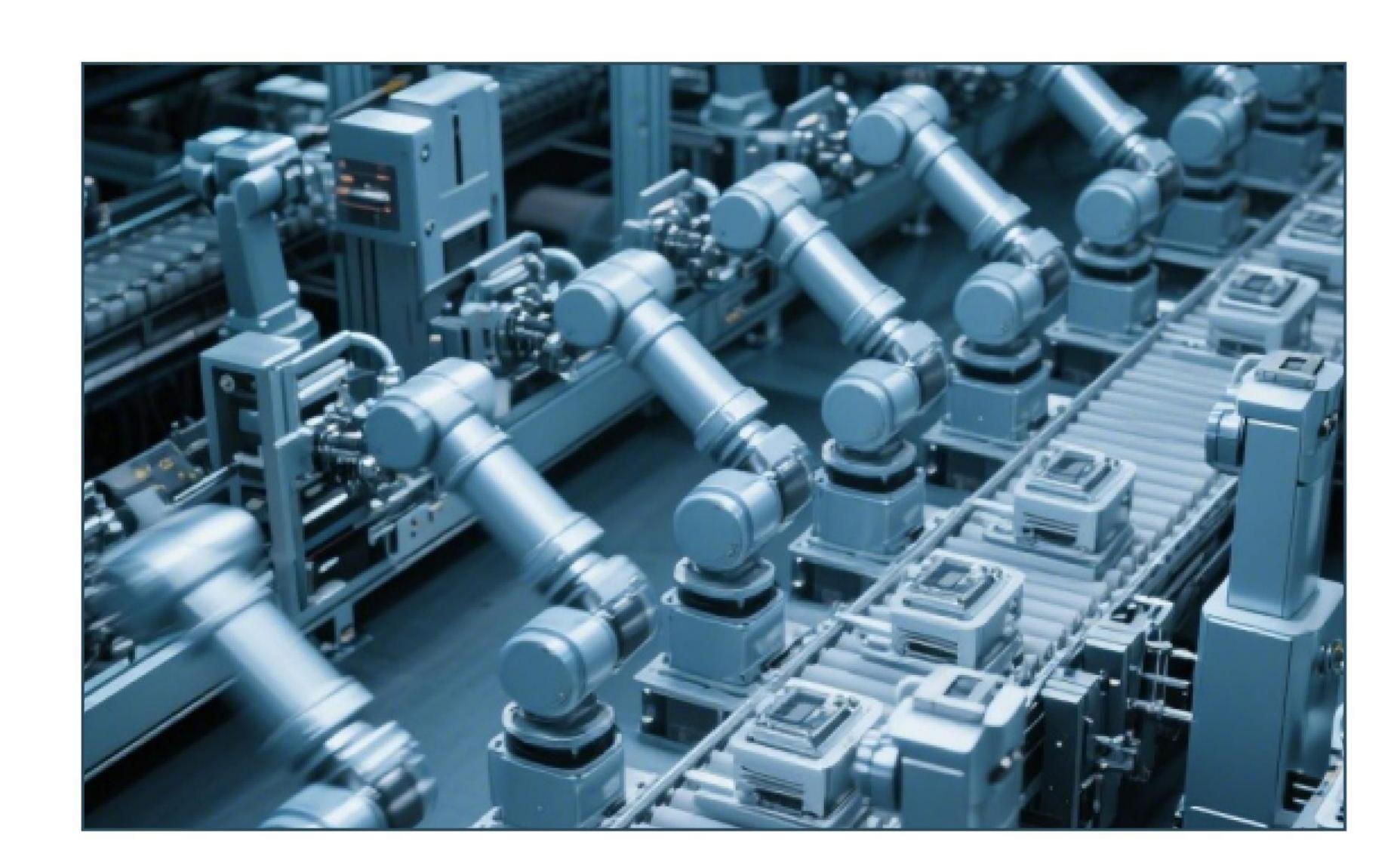
Single-phase dynamic injection of compensation current to improve the system three-phase imbalance, automatic suppression of system resonance, no resonance with the system, to ensure the safe operation of equipment and systems;



# liah harmoni

## High harmonic filtering rate

High harmonic filtering rate. Under the rated power, the filtering rate of harmonic current can be as high as 97%.



### Fast

Fast response time. The full response time of harmonic compensation current is less than 10ms



## Whole series

From 25A module to 150A module, covering the full range of active power filter products;



### Advanced

Fully functional intelligent control system; Adopt the latest intelligent control unit, friendly interface, simple and convenient operation: can display voltage, current, load harmonics and equipment output harmonics waveform, amplitude and spectrum and other parameters; Real-time fault record and event record;



Using Our Technology to Assist Green Earth

Create a Better Future Together

### Convenient and fast

Design and selection is simple, installation, operation and maintenance is simple. Easy to expand and redundant design, multiple parallel operation;



### Reliable

Can be set or maximum 100% current limiting output. Ensure the long-term stable operation of the device, no equipment overload worry. With system overvoltage, undervoltage protection; Output overcurrent, overheat protection; Control voltage system fault protection.





	220V series	380V series	500V series	690V series	
Altitude	<2000m, above 2000m, derate according to GB/T3859.2				
ambient temperature	-20∼+50°C				
Relative humidity	≤90%, no condensation on the surface when the monthly minimum temperature is 25°C				
pollution level	Level III below				
Operating Voltage	AC220V±20%	AC380V±20%	AC500V±20%	AC690V±20%	
working frequency	50Hz±5%				
Compensation current	25A	25/50/75/100/150A	100A	100A	
Grid structure	L/N	3P3W/3P4W	3P3W/3P4W	3P3W/3P4W	
Number of units connected in parallel	Ulimited				
Overall machine efficiency	≥97%				
Grid structure	32kHz	16kHz	12.8kHz	12.8kHz	
Compensation range	2~50times,single compensation rate is adjustable				
Function selection	Reactive power	Reactive power, reactive power + asymmetry			
Reactive power compensation rate	≥95%	>92%			
Neutral filtering capability	Neutral line filtering capability is 3 times that of phase filtering capability				
full response time	<10ms	<40ms	<40ms	<40ms	
noise	≤60dB	≤60dB	≤65dB	≤65dB	
control method	2-way RS485 interface (supports GPRS/WIFI)				
Protection	Overload, software/hardware overcurrent, grid overvoltage and undervoltage, power failure, overtemperature, frequency abnormality protection, etc.	Overload, software/hardware overcurrent, grid overvoltage and undervoltage, grid voltage imbalance, power failure, overtemperature, frequency abnormality, short circuit protection, etc.			
Installation method	Rack/wall-mounted		Rack		
Incoming line	Back incoming (rack type) \ upper incoming (wall-mounted)		Back incoming line		
Protection level	IP20				

### Application

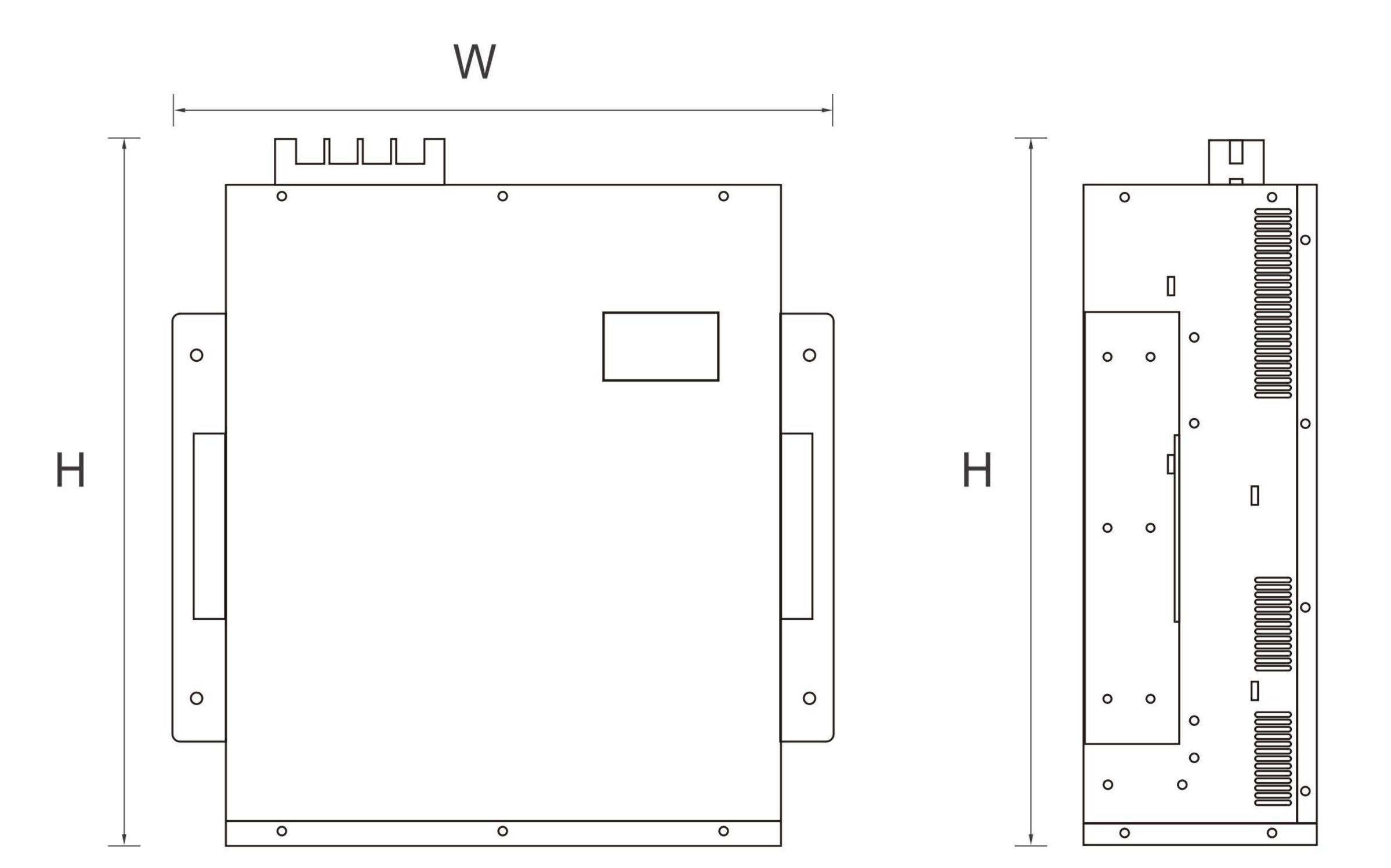
Data centers, hospitals, petrochemical industry, pharmaceutical manufacturing, steel industry, semiconductor manufacturing, light industry and textile industry, etc.

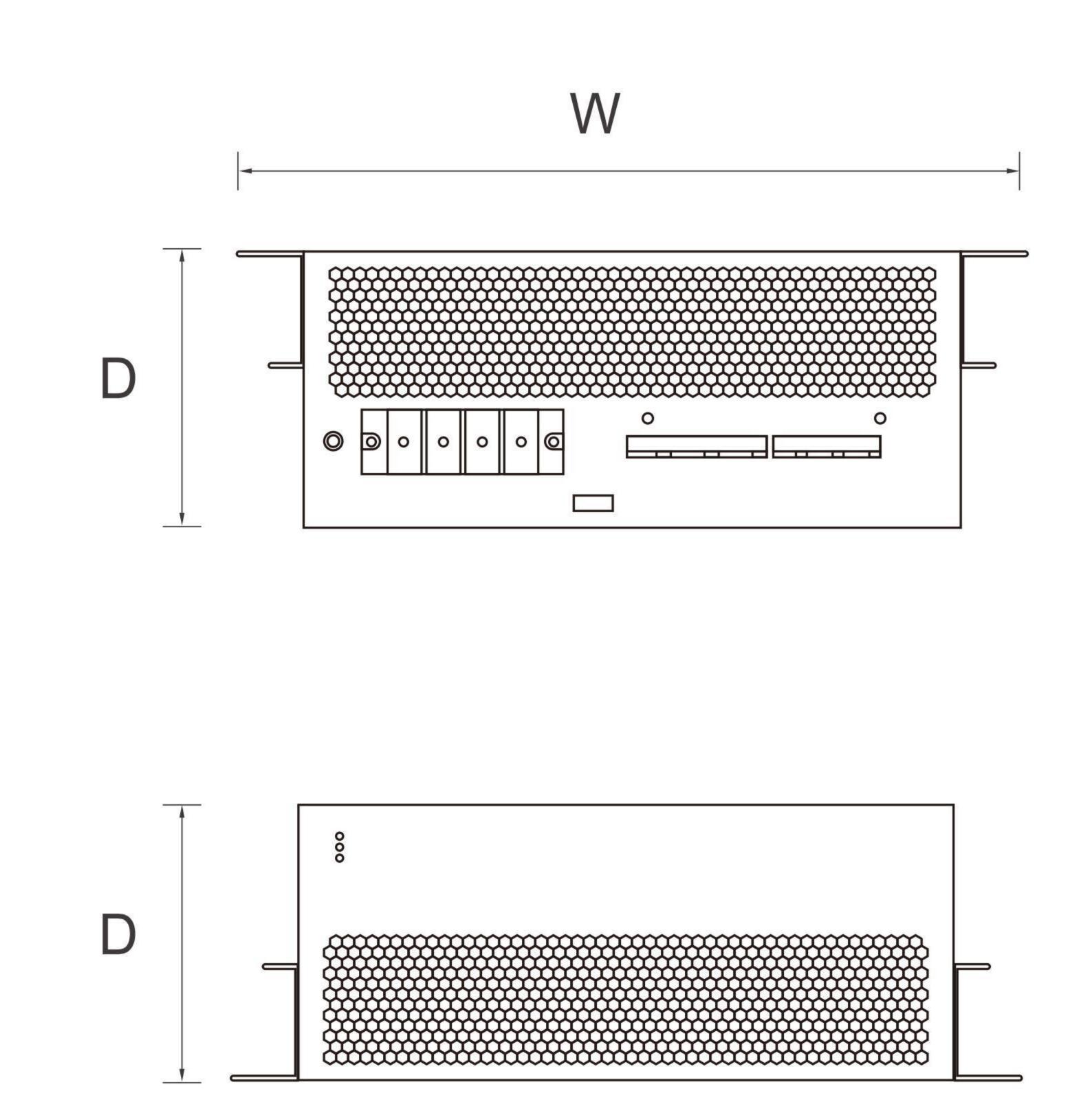


## Product size

Wall-mounted

Rack mount





Models						
Model Number	Compensation capacity (kvar)	System voltage (V)	Dimensions (D*W*H)	Cooling method		
GY AHF-220-15A/4L	15	220	537*398(350)*100			
GY AHF-220-25A/4L	25	220	541*398(350)*140			
GY AHF-220-50A/4L	50	220	554*488(440)*140			
GY AHF-220-100A/4L	100	220	668*488(440)*140			
GY AHF-220-150A/4L	15	220	739*560(500)*230			
GY AHF-400-15A/3L	15	380±20%	537*398(350)*100			
GY AHF-400-25A/3L	25	380±20%	541*398(350)*140			
GY AHF-400-50A/3L	50	380±20%	554*488(440)*140			
GY AHF-400-100A/3L	100	380±20%	668*488(440)*140			
GY AHF-400-150A/3L	150	380±20%	739*560(500)*230	Forced air cooling		
GY AHF-400-15A/4L	15	380±20%	537*398(350)*100			
GY AHF-400-25A/4L	25	380±20%	541*398(350)*140			
GY AHF-400-50A/4L	50	380±20%	554*488(440)*140			
GY AHF-400-100A/4L	100	380±20%	668*488(440)*140			
GY AHF-400-150A/4L	150	380±20%	739*560(500)*230			
GY AHF-500-100A/4L	100	500±20%	712*540(500)*302			
GY AHF-690-100A/4L	100	690±20%	712*540(500)*302			

