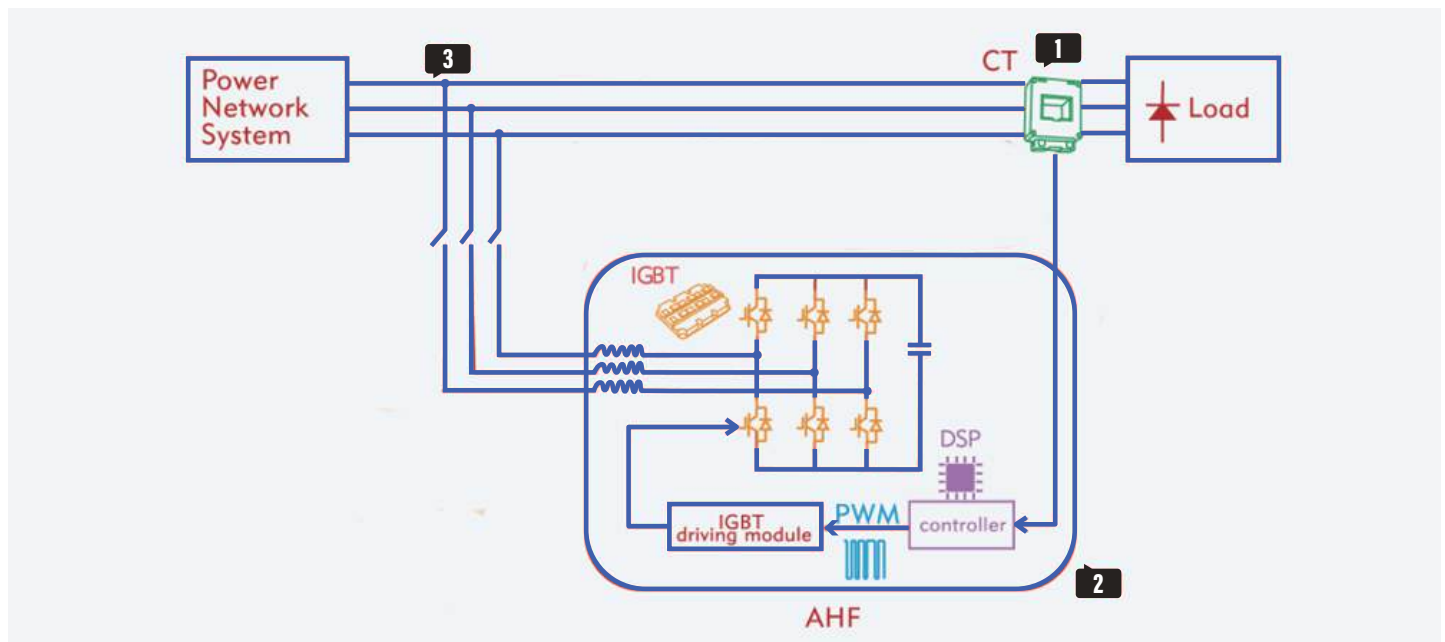


Product Capacity		30A	50A	75A	100A	150A	200A
Network	220V	■	■	■	■	■	—
	400V	■	■	■	■	■	■
	480V	—	■	—	■	—	—

## PRINCIPLE

The Active Harmonic Filter is design by the advance 3-Level topology. When current transformer sampling the current from the network, Digital Signal Processor (DSP) use the control arithmetic, could analyse the current, divides the load current into active power and reactive power by using the intelligent Fast Fourier Transform (FFT), and calculates the harmonic content rapidly and accurately, then sends Pulse Width Modulation (PWM) signal to the IGBT driver board to control on/off at average 20kHz frequency. Finally generates opposite phase compensation current, at the same time CT detects the output current and forms a negative feedback to DSP. Then DSP proceeds the next logical control to achieve more accurate and stable system.



## ADVANTAGES & BENEFITS

- Prevent upstream circuit from harmonics damaging
- Reduce the current of the neutral line, reduce the loss of the neutral line and heating
- Reduce the transformer loss and improve transformer efficiency
- Reduce the line loss of power supply and distribution system, improve the efficiency of power generation and distribution
- At the same time to prevent the power supply and distribution system from relay protection device mistrip
- Decrease THDi and THDu

## SPECIFICATION

Items	220V	400V	480V
Rated capacity	35/50/75/100/150 A	35/50/75/100/150/200 A	50/100 A
System parameters			
Rated Voltage	220V(176V~264V)	380V(228V~456V)	480V(380V~690V)
Rated Frequency	50Hz/60Hz (-10% ~ +10%)		
Parallel quantities	Each HMI available for 10 Units, HMI Paralled connection not limited		
Wiring	3P3W/3P4W		
Performance Indicator			
Function	Harmonic compensation, Reactive power compensation, Unbalance compensation		
Control algorithm	FFT/Interlligent FFT/Instantaneous Reactive Power		
Harmonic Filtering	2nd to 51st orders		
Performance	≥97%		
Reaction time	< 50 μ s		
Overall response time	<10ms		
Target power factor	adjust from -1 to +1		
Noise level	< 60dB		
Communication & Display			
Interface	RS485		
Communication	MODBUS-RTU		
Display	4"LCD display on wall mounted module, 7"HMI for rack mounted module parallel connection		
Protection	Over 20 kinds of protections such as over-voltage, under-voltage, overheating, over-current, short circuit, etc.		
Fault alarm	Up to 500 Alarm event records		
Net Weight	13kg(35A); 24kg(75A); 38kg(100A/150A); 45kg(200A)		
Mechanical Feature			
Installation	Wall mount/Rack mount/ Floor stand cabinet		
Dimension (W*D*H)mm	220V Wall/Rack mount 35/50/75A		480*130*440
	220V Wall/Rack mount 100/150A		480*200*530
	400V Wall/Rack mount 35/100A		480*200*530
	400V Wall/Rack mount 150/200A		680*200*530
	480V Wall/Rack mount 50/100A		680*200*580
	220V/400V/480V Floor Stand Cabinet		1000*1000*2000mm or by Customized
Color	Grey/Black, Cabinet color can be customized		
Altitude	≥1500m, Between 1,500m to 2000m, derating 1% every additional 100m		
Ambient temperature	-20℃~40℃		
Relative humidity	5~95%, non-condensing		
IP Grade	Wall mount module : IP 20; Floor Stand: IP 41		
Certification	CE		
Standard complication	IEEE519, IEC61000		