



Active Harmonic Filter (AHF) is an intelligent power quality solution that detects and eliminates harmonic distortions in real time. It enhances energy efficiency while ensuring safer and longer-lasting operation of electrical equipment.

Items	AHF					
Rating	25/35A	50/60A	75A	100A	150A	300A
Function	Harmonic, reactive power and three-phase unbalance compensation					
System parameters						
Nominal voltage	380/400/415V (228-456V)					
L-N voltage	220/230/240V (132-264V)					
Nominal frequency	50/60Hz, auto sensing (Range : 45Hz~62.5Hz)					
Parallel quantities	Unlimited					
Efficiency	99%					98,5%
Connection type	3 Phase 3 Wire / 3 Phase 4 Wire					
CT location	Load / Supply side					
Performance indicators						
Control algorithm	FFT, intelligent FFT, and instantaneous reactive power					
Compensation Order	2nd to 50th, selectable for each order, amplitude adjustment					
Advanced control algorithm	Resonance suppression, compensation performance software auto-tuning, no CT connection for THDu compensation					
Compensation rate	> 97%					
Even harmonic compensation rate	> 97%					> 95%
Zero-Sequence compensation rate	3 times capacity compensated, >97%.					
Fast response Time	< 50us					

Target power factor	Adjustable from -1 to +1			
Switching frequency	Average 40kHz, up to 95kHz			
Cooling air requirement	180CFM	165CFM	240CFM	480CFM
Noise level	<60dB (Full load)	<60dB (Full load)	<65dB (Full load)	<68dB (Full load)
Communications ports	RS485 and Ethernet port(RJ45)			
Communications protocols	Modbus RTU, TCP/IP			
Module display interface	4.3-inch HMI(module), 7-inch HMI(central monitor) and LED			
Protection functions	Over-voltage protection, under-voltage protection, inverter bridge inverse protection, over-compensation protection and so on			
Mounting type	Wall-mounted, Rack-mounted and Cabinet			Wall-mounted and Rack-mounted
Dimensions (W x D x H mm)	500*470*88	500*520*88	500*520*100	500*646*220
Net weight	24kg	25kg	32kg	63kg
Storage temperature	-40℃~70℃			
Operating Ambient temperature	-10℃~40℃ (may derate capacity if ambient temperature exceeds 40℃)			
Relative humidity	5% to 95%, non-condensing			
Altitude	≤1500m, 1500-4000m, capacity is derating 1% for every 100m altitude increased.			
protection class	IP20 (IP degree can be customizable)			
Qualifications	CE (400V type AHF); ETL (Compatible 380~480V type AHF)			CE (400V type AHF)