



Active Harmonic Filter

Items	400V						
	AHF 005/010/015	AHF 025/035	AHF 050/060	AHF 075/100	AHF 150	AHF 300	
	System Parameter						
Input phase voltage range	380 (228V~456V)						
Power grid frequency	50/60Hz (range: 45Hz~62Hz)						
Parallel operation	Unlimited						
Overall efficiency	≥97% (Full load)						
Power grid structure	3P3W/3P4W						
CT Ratio	50/5~10000/5						
Circuit topology	3-Level						
	Performance Indicator						
Rated capacity	5A/10A/15A	25A/35A	50A/60A	75A/100A	150A	300A	
Function	Harmonic compensation, Reactive power compensation, Unbalance compensation						
Control algorithm	Intelligent FFT/ Instantaneous Reactive Power/FFT						
Filtering range	2 nd to 61 th orders					2 nd to 50 th orders	
Filtering performance	≥95%						
Reaction time	20μs					<50μs	
Overall response time	5ms					<5ms	
Target power factor	Adjustable from -1 to +1						
Switch frequency	Average 50KHz					Average 20KHz	
Cooling air requirement	96CFM	321CFM	321CFM	543CFM	825CFM	1611CFM	
Noise level	<68dB					<65 dB	<75dB
	Communication & Monitoring Capability						
Communications ports	RS485					RS485, Ethernet port (RJ45)	
Communications protocols	MODBUS (RTU)					MODBUS (RTU, TCP/IP)	
Module display interface	WIFI display, 7-inch HMI(central monitor)					4.3-inch HMI (module), 7-inch HMI(central monitor), LED	
Protection functions	Abnormal voltage/frequency protection; Inverter short-circuit protection; Abnormal output current protection; Inverter over-loaded protection, Over-temperature protection etc.,						
Monitoring alarm	Available						
Fault alarm	Available					Available, 500 alarm records	
	Mechanical Properties						
Mounting type	Wall-mounted/Rack-mounted	Wall-mounted/Rack-mounted/Cabinet					
Dimensions(W x D x H)mm	410*340*45(Rack-mounted) 410*45*340(Wall-mounted)	400*490*150 (Rack-mounted) 440*150*470 (Wall-mounted)	440*590*190 (Rack-mounted) 440*190*610 (Wall-mounted)	500*600*190(75A) 440*599*230(100A) (Rack-mounted) 500*190*585(75A) 440*232*625(100A) (Wall-mounted)	500*560*269 (Rack-mounted) 500*286*557 (Wall-mounted)	500*722*370 (Rack-mounted) 500*370*722 (Wall-mounted)	
Module net weight	4.98kg	18kg	35kg	40kg	48kg	110kg	
Color	Silver					Black	
	Environment Requirement						
Attitude	≤1500m; Between 1500m to 4000m, derating 1% every additional 100m						
Ambient temperature	~10°C~40°C (may derating if ambient temperature exceeds 45°C)						
Relative humidity	5%~95%, non-condensing						
Protection class	IP20 (IP degrees can be customized)						
	Related Qualifications & Standards						
Qualifications	CE, CCS						
Standards compliance	IEEE519, ER G5/4, IEC 61000						