

TECHNICAL SPECIFICATIONS	
Product Name	ACTIVE HARMONIC FILTER
Rated Voltage	AC 400V
<b>Electrical Specification</b>	
Input Voltage Range	AC 308V-480V
Electric Connection	3P3W/3P4W
Rated Frequency	50Hz (60Hz) +/- 10%
Rated Current per Module	30Amp, 50Amp, 75Amp, 100Amp, 150Amp
Rated Current per Cabinet	30~600Amp (module combination)
Redundancy	Each module is an independent filtering system
Harmonic Elimination Range	2nd ~ 50th order (Selectable)
Compensation Mode	Compensate Harmonics, Reactive Power, 3 Phase imbalance
Harmonic Filtering Performance	Filter up to 98% harmonics at rated load
THDv and THDi Performance	THDv<3%, THDi<5% after filtering at rated load
Reactive Power Compensation Capability	Both inductive and capacitive reactive power compensation
Imbalance Correction Capability	Mitigate negative and zero sequence
Full Response time	<5ms
Instant Response time	<100us
Thermal Loss	≤3% of AHF rated capacity (kVA)
Output Current Limitation	Automatic (100% rated capacity)
Parallel Expansion(System)	Up to 10 Racks(4 modules per cabinet)
MTBF	>100,000 hours
<b>Control Technology</b>	
Switching Frequency	30A 50A, 75A : 60kHz
	100A 150A : 30kHz
Controller	DSP IGBT FPGA control
Communication	Modbus Protocol, RS232/485
Monitoring	ZDDQ HMI Monitor Software (Optional)
<b>Physical Specification</b>	
IP Grade of Cabinet	IP2X or customization
Cooling method	Intelligent forced air cooling
Noise Level	< 65dB(A) @ 1m (Module)
Dimension	Refer to AHF Model table
Weight	Refer to AHF Model table
<b>Environmental Requirement</b>	
Ambient Temperature	-10~50 °C
Relative Humidity	0~95%
Altitude	≤ 1000m Rated Capacity,
	1000-2000m (derating 1% per 100m)