

TECHNICAL SPECIFICATIONS	
Product Name	ACTIVE POWER FILTER
Rated Voltage	AC 660V/690V
Electrical Specification	
Input Voltage Range	AC 660V/690V
Electric Connection	3P3W/3P4W
Rated Frequency	50Hz (60Hz) +/- 10%
Rated Current per Module	50Amp, 100Amp
Rated Current per Cabinet	50~400Amp (module combination)
Redundancy	Each module is an independent filtering system
Compensation Mode	Compensate Harmonics, Reactive Power, 3 Phase imbalance
Harmonic Elimination Range	2nd ~ 50th order (Selectable)
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
Reactive Power Compensation Performance	PF \geq 0.99 after compensation (if the APF capacity is sufficient)
Imbalance Correction Capability	Mitigate negative and zero sequence
Full Response time	<5ms
Instant Response time	<100us
Thermal Loss	\leq 3% of APF 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
Control Technology	
Switching Frequency	50A: 60kHz
	100A: 30kHz
Controller	DSP IGBT FPGA control
Communication	Modbus Protocol, RS232/485
Monitoring	ZDDQ HMI Monitor Software (Optional)
Physical Specification	
IP Grade of Cabinet	IP2X or customization
Cooling method	Intelligent forced air cooling
Noise Level	< 65dB(A) @ 1m (Module)
Dimension	Refer to APF Model table
Weight	Refer to APF Model table
Environmental Requirement	
Ambient Temperature	-10~50 °C
Relative Humidity	0~95%
Altitude	\leq 1000m Rated Capacity,
	1000-2000m (derating 1% per 100m)