

| TECHNICAL SPECIFICATIONS | |
|--|---|
| Product Name | ACTIVE HARMONIC FILTER |
| Rated Voltage | AC 400V |
| Electrical Specification | |
| 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 |
| Control Technology | |
| 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) |
| Physical Specification | |
| 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 |
| Environmental Requirement | |
| Ambient Temperature | -10~50 °C |
| Relative Humidity | 0~95% |
| Altitude | ≤ 1000m Rated Capacity, |
| | 1000-2000m (derating 1% per 100m) |