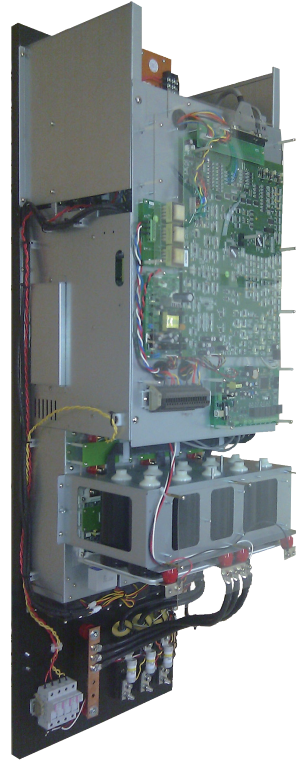


OmniWave AHF

Active Power Filter

AHF 100A & 150A



- True Harmonic Solution for Low and medium voltage
- IP00 Design (Options up to IP66, NEMA 4X)
- Compact Size Design
- Easy to Install in Small Cabinet
- Up to 51st Harmonic
- Close/Open Loop Control
- Programmable Harmonic Compensation and Power Factor Correction
- Load Balancing Function
- Full-time DSP Control System
- Up to 8 Units in Parallel
- Parallel Operation in Various Current Ratings
- User Friendly Operation Interface --7" Colorful LCD Touch Screen

General Characteristics

Storage Temperature	-20 °C to + 70 °C
Operating Temperature	+0 °C to +40°C
Relative Humidity	<95%
Operating Altitude	<1000 m
Reference Harmonic Standard	EN61000-3-4, IEEE 519-1992
Reference Design Standard	EN60146
Safety Standard	EN50178

HMI & Communication

Display	7 inch, 800×400 pixel, LCD touch screen
Dry Contact	3 Output Dry Contacts
	1 Input Dry Contact
Communication	USB, RS-485, Ethernet
Monitoring Software (Optional)	ESD-Link34
Communication Protocol	J-Bus/Modbus RTU Protocol

Electrical Specification

Model	AHF-100-400	AHF-150-400
Input Voltage	480V/400V +15%,-20% (Voltages up to 15kV with transformers)	
Phase/Wires	3 phase 4 wires/3wires (480V 3 wire only)	
Frequency	50/60±3 Hz (Auto Sensing)	
Maximum Compensation Current/Phase	100 A _{RMS}	150 A _{RMS}
Maximum Compensation Current of Neutral	300 A _{RMS}	450 A _{RMS}
Compensated Harmonic Orders	From 2nd to 51st order. Up to 12 orders actives simultaneously (2nd ~31st). Higher Order Compensation (32nd~51st) Disable/Enable operation.	
Power Factor Correction	Compensate both lagging and leading reactive power. Power factor can be programmed from 0.7 lagging to 0.7 leading	
CT Ratio	Can be set. Primary Current: 100A~10000A Secondary Current: 1A(Standard)/5A (Optional)	
CT Location	Source Side: Close Loop Control Load Side: Open Loop Control	
Response Time	< 20 ms	
Inrush Current	Less than rated current	
Current Limitation	Yes, at full correcting	
Parallel	Up to 8 Units	
Maximum Heat losses	2300 Watts	3200 Watts
Dimensions (WxHxD, mm/ inch)	IP00	440x441x1500 / 17.3x17.3x59.0
	IP20 (NEMA1)	600x600x1900 / 23.6x23.6x74.8
Net Weight (kgs/Ibs)	IP00	110/112
	IP20 (NEMA 1)	195/430

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