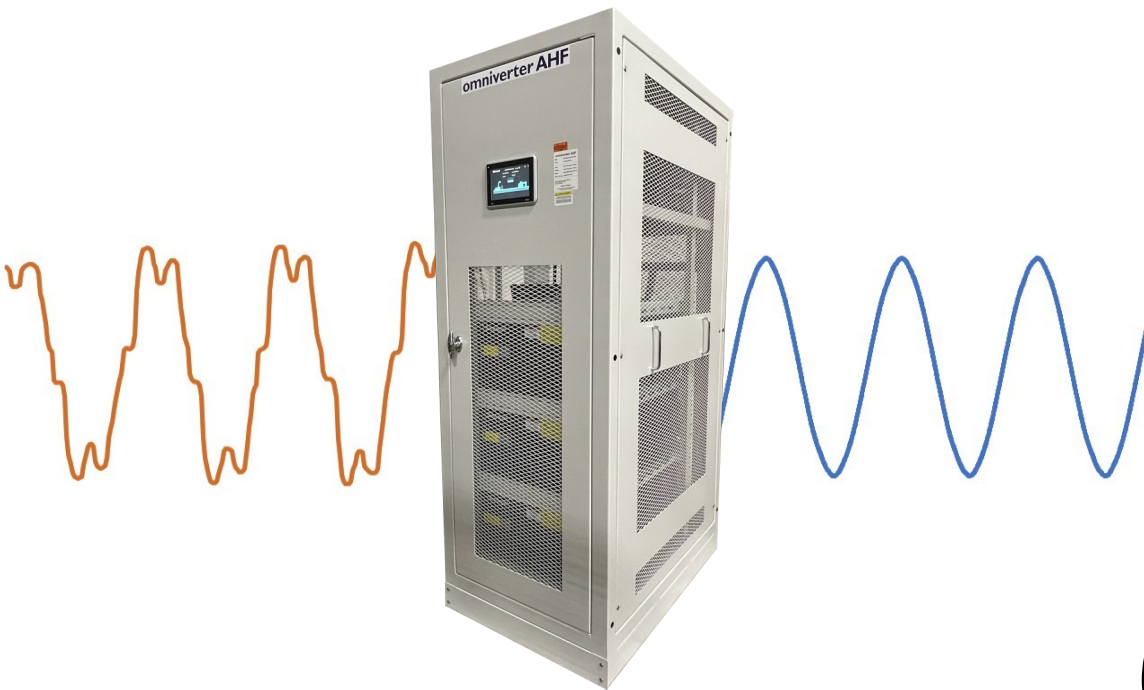


OmniWave AHF

Active Harmonic Filter 208V-600V

OmniWave AHF correct harmonics which are generated by non-linear devices such as switch-mode power supplies, variable speed drives, rectifiers, robots and inverters which are located within a customer's facility. The **AHF** can also be programmed to correct power factor.



Key Features

- Stepless compensation
- Direct voltage connection 208, 480 & 600V 3ph 3w and 3ph 4w
- No additional transformer required
- Approved to UL/CSA
- Compensates for harmonics from 2nd to 50th
- Programmable Harmonic Compensation and Power Factor Correction
- Parallel operation to 800A at 208V to 600V as standard



tame your power—keep your profits

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OmniWave AHF

Specification

Items	208V	480V	600V
System Parameters			
Rated Voltage Input	167-239	384-552	480-690
Current Ratings A -Wall Mounted	25,35,50,60,75,100 Amp		
Current Ratings A - Floor Mounted	125,150,800 Amp		
Supply Frequency	Nominal 50/60Hz Range 45-62Hz		
Parallel Units	Unlimited		
Efficiency	≥97%		
Electrical System	3Ph 3 wire, 3PH 4 wire		
CT range	150:5A - 6000:5A		
Performance Indicators			
Harmonic Compensation	Available		
Reactive Power Compensation	Available		
Unbalance compensation	Available		
Control algorithm	Intelligent FFT, FFT & instantaneous power algorithm		
Filtering range	2nd to 50th Harmonic		
Filter performance	>95%		
Reaction Time	<50μs		
Overall response time	<5ms		
Target Power Factor	Adjustable -1 to +1		
Switching frequency	20kHz		
Cooling Air Requirements	100A unit requires approx. 13cu.ft/sec		
Noise Level	<65dB		
Communication & Monitoring			
Communication ports	RS485, Ethernet (RJ45)		
Communication Protocol	Modbus (RTU)		
Module display interface	7in LCD touch screen for floor mounted , 4.3in LCD touch screen wall mounted		
Protection functions	Over-voltage, under-voltage, short circuit inverter bridge, over compensation		
Monitoring Alarm	Available		
Fault Alarm	Available - 500 alarm records maximum		
Environment Requirements			
Protection Class	NEMA1		
Storage Temperature	-20°C to+50°C		
Operating Temperature	-10°C to +40°C		
Relative Humidity	<95% Non Condensing		
Operating Altitude	< 1000m		
Approvals			
cULus IEEE61000 CE			
Dimensions			
Floor Mounted 125A - 400A	28"W x 39"D x 76"H		
Floor Mounted > 400A	≥2 x (28"W x 39"D x 76"H)		
Wall Mounted 25,35,50A	20"W x 10"D x 26"H		
Wall Mounted 75,100A	"W x "D x "H		