

Features :

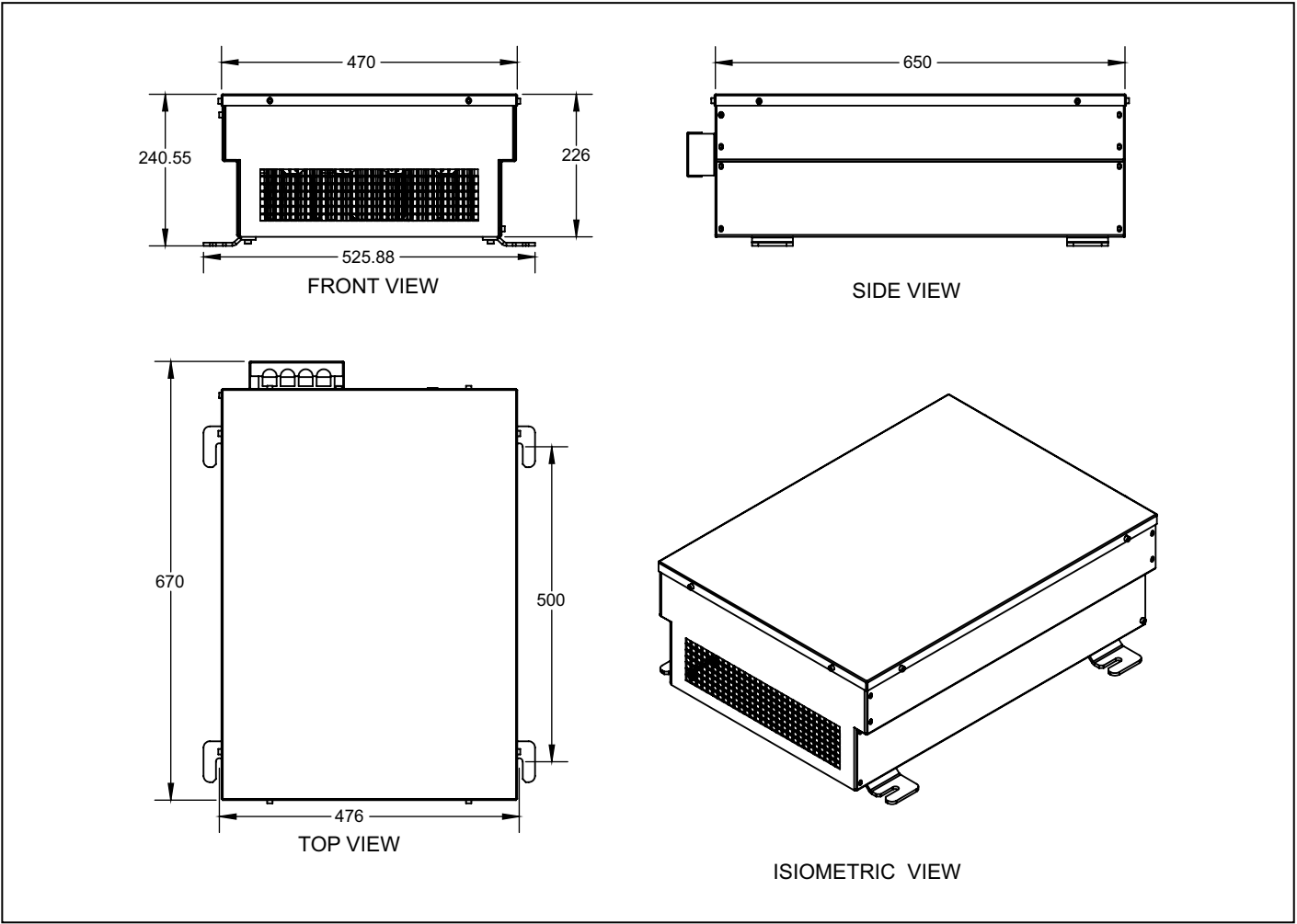
- Real time, dynamic step-less compensation
- Instant response time of 50 μ sec & full response in less than 1 cycle
- Capacitive (Leading) & Inductive (Lagging) reactive power mitigation
- Harmonic correction up to 51th order
- RS485, Optional Wi-Fi / Ethernet modular arrangement-parallel operation up to 8 module
- Can be installed with conventional capacitor banks

Technical specifications

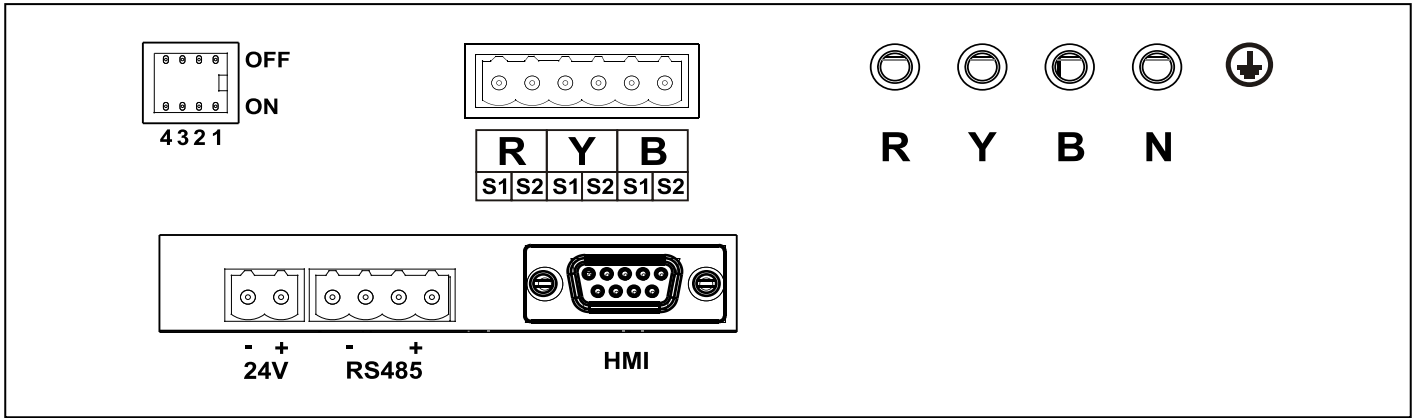
Product name	AHF
Product or component type	Active harmonic filter
Network type	3P
Network configuration	3P-3W / 3P-4W
Network rated voltage	308V to 460V
Network frequency	50/60HZ (2.5Hz)
Nominal voltage	415
Maximum permissible voltage	1.1 x Un
Neutral connection	Provided
RMS Output current rating	50A
Current transformer	Settable through HMI up to 10000 / 5A
CT Location	Grid side / Load side
Topology	Three level topology
Reactive power rating	36kVAR at 415V
Harmonic mitigation	Upto 51 th order for max current rating of 50A
Operating modes	Harmonic cancellation, Load Balancing, Power factor correction
Installation location	Indoor
Enclosure mounting	Wall mounted / Rack mounted / Floor mounted
Protection type	Over-voltage protection, Under-voltage protection, Inverter bridge inverse protection, Over compensation protection, over-current protection
Heat dissipation	Rear plenum with forced ventilation for high heat flow
Cooling	151L / Sec
Dimensions (W x D x H) mm	470*240*670
Colour	RAL7035
Parallel operations	Upto 8 units
Efficiency	$\geq 97\%$
Losses	$< 3\%$
Response time	$< 50\mu s$
Overall response time	$< 5ms$
Target PF	-1~1 Adjustment

Communication port	RS485, Ethernet & WiFi (Optional)
Communication protocol	MODBUS-RTU (Default), MODBUS TCP-IP (Optional)
Display interface	4.3 inch HMI (Optional)
Accessibility for operation	Through HMI & Remote
Electromagnetic compatibility	Conducted EMC, Class A conforming to EN 61000-6-4
Enclosure degree of protection	IP 20
Environmental characteristic	Operating: 3C2 conforming to IEC 60721-3-3 Storage: 3C3 conforming to IEC 60721-3-3
Operating altitude	<2000m
Ambient air temperature or operation	-10 to 45°C
Ralative humidity	0...95 %
PCBA Protection	Conformal coated
Standards	EN 61000-6-4
Ambient air temperature for storage	-----
Warranty	12 months

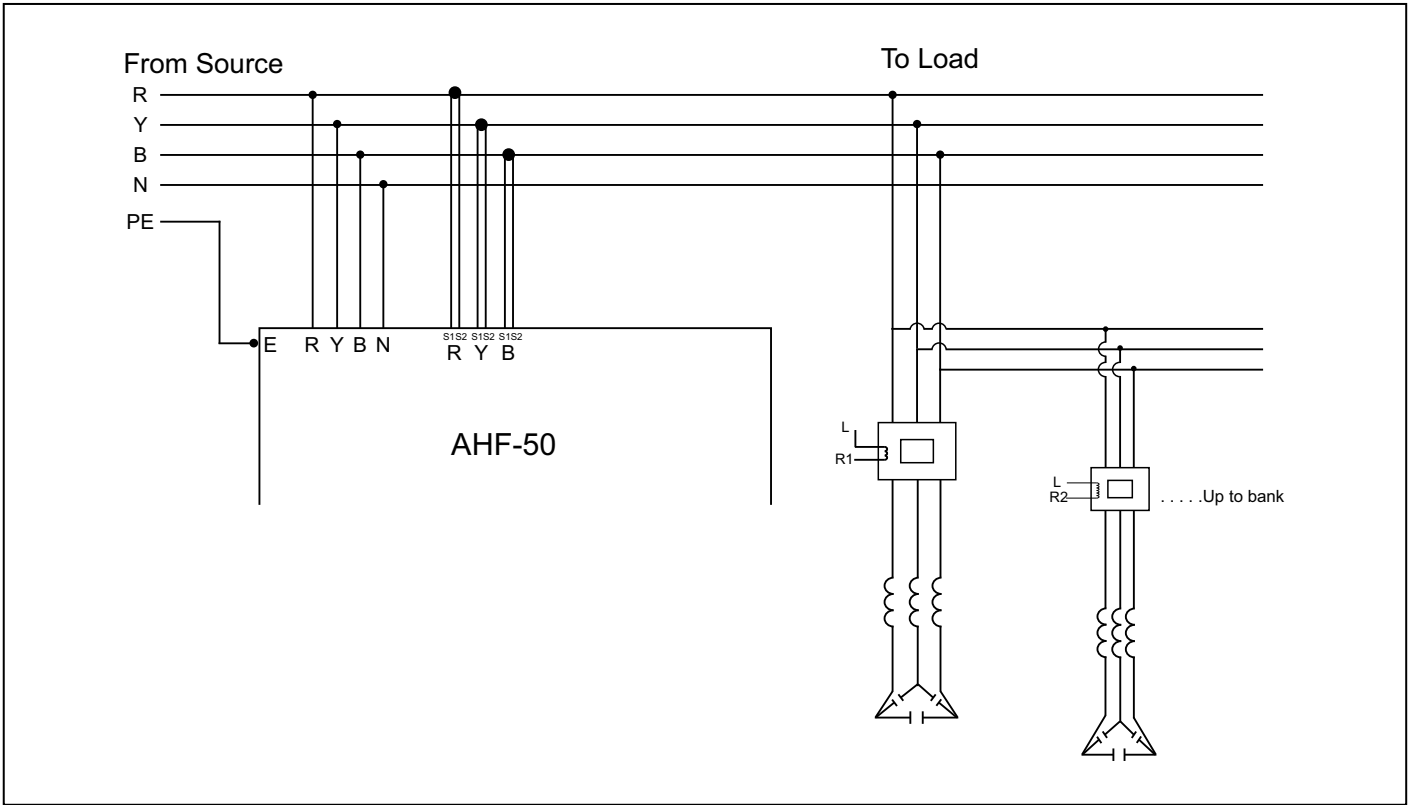
Mechanical diamensions



Terminal diagram



Terminal connection



Ordering information

AHF-050-RCK-4P-04	Active harmonic filter 50A, Rack mounted, 3P-4W with 4.3 inch HMI
AHF-050-WLL-4P-04	Active harmonic filter 50A, Wall mounted, 3P-4W with 4.3 inch HMI
AHF-050-WLL-4P-XX	Active harmonic filter 50A, Wall mounted, 3P-4W without display

Note : For XX Model separate common controller is mandatory