INNOFLOW

Product overview

POWER QUALITY DEVICES

Active Harmonic Filter

IF-AHF-A

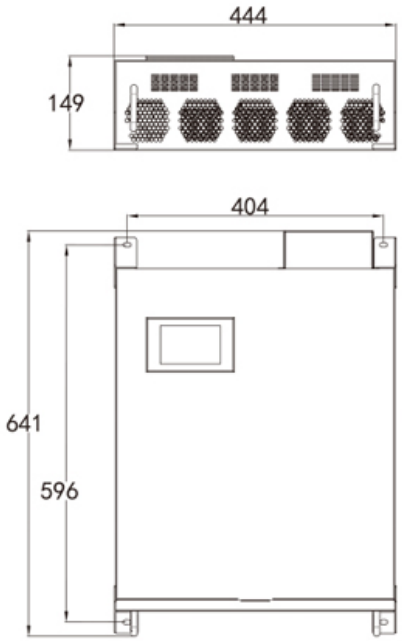


Product series reference. Match the model, capacity, voltage and mounting variant in the following tables and drawings to the selected configuration.

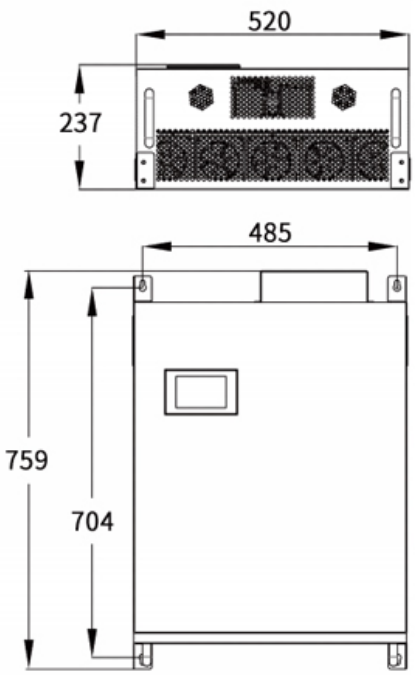
TECHNICAL OVERVIEW
Selected product data and drawings. This document is not an installation manual.

Technical reference

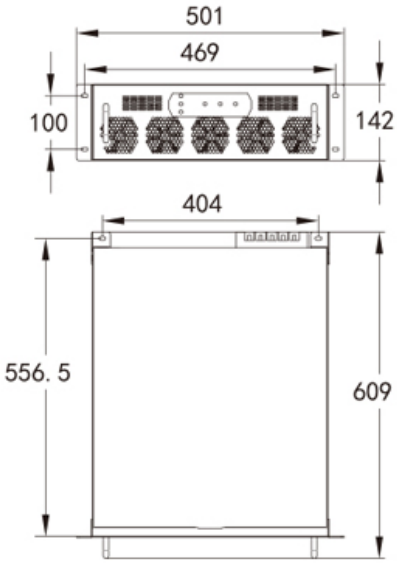
30-75A Wall-mounted



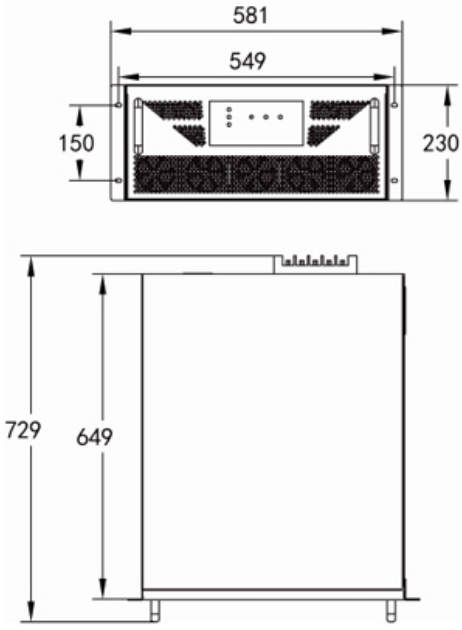
100-150A Wall-mounted



30-75A Rack-mounted



100-150A Rack-mounted



Series reference. Apply the capacity, mounting type and units shown in this figure.

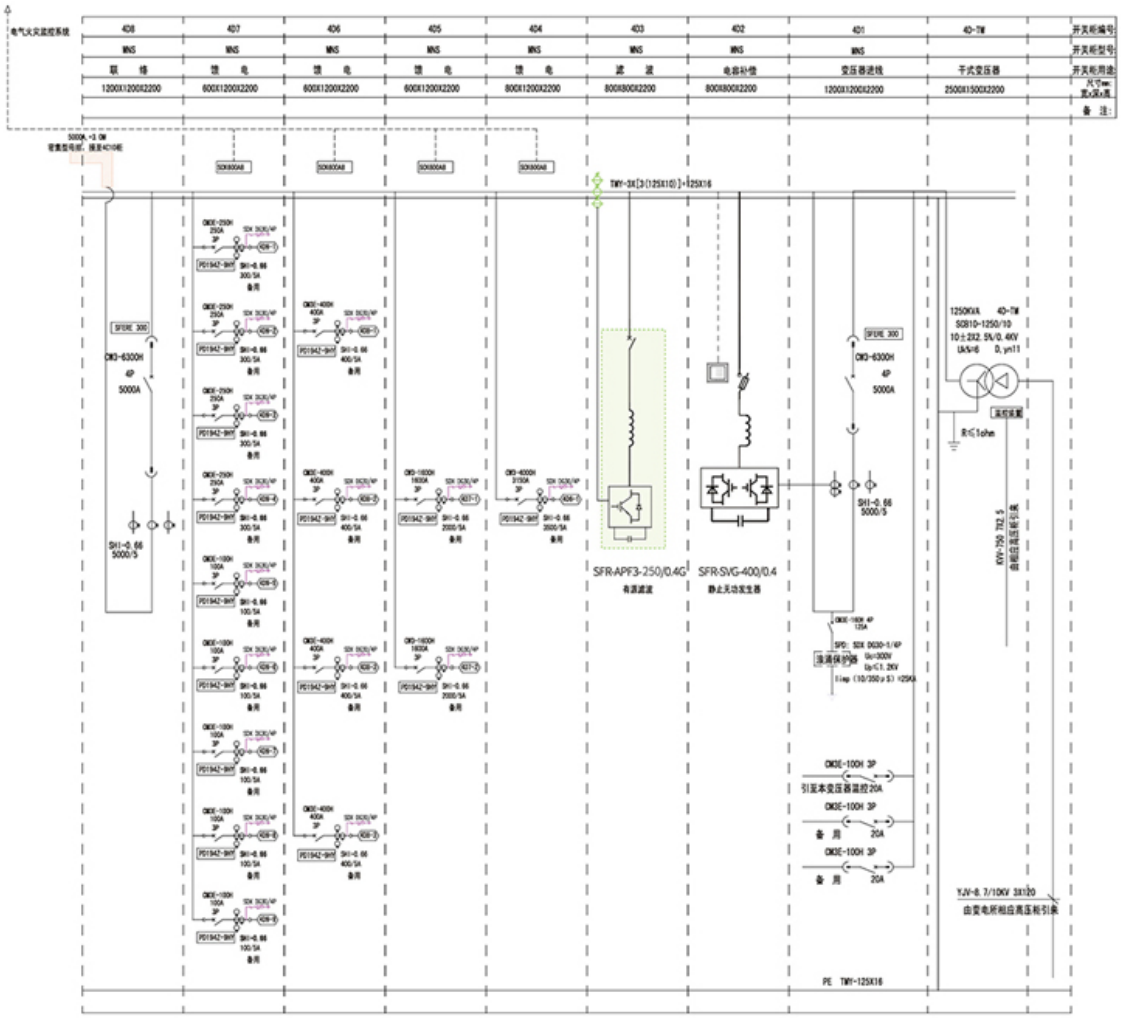
INNOFLOW

Technical reference

Item		Parameter		
IF-AHF-A	Grid	380,400,415V 3P3W/3P4W		690V 3P3W
	Mounting Type	Wall-mounted	Rack-mounted	Floor model
System	Rated Input	340～460V		586～793V
	Power Grid Frequency	50/60Hz ±5%		
	Parallel Operation	8 modules, customizable		
	Overall Efficiency	≥97%(laboratory data)		
	Circuit Topology	3-level		
Performance Indicators	Rated Capacity	30A/ 50A/ 75A/ 100A/ 150A		100A/125A/150A
	Compensation Mode	Harmonic, reactive power, unbalance		
	Filtering Range	2 to 51 orders		
	Filtering Order	Selectable from 2 to 51		
	Filtering Degree	Adjustable from 2 to 51		
	Reaction Time	<100μs		
	Response Time	<5ms		
	Target Power Factor	Adjustable from -1 to +1		
	Control Algorithm	FFT, Intelligent FFT and instantaneous reactive power		
	Switching Frequency	20kHz		
	Cooling Mode	Forced air cooling		
	Noise Level	≤65dB		
Communications & Display	Communications Port	RS485		
	Communications Protocol	Modbus-RTU		
	Module Display Interface	4.3in LCD	LED indicator	LED indicator
	Protection Function	Automatic current limit protection for power grid over-voltage and under-voltage,power gridoxer-frequency and under-frequency,inverted sequence of input voltage, over-current,over-heating and over-load, and busbar short-circuit.		
	Monitoring Alarm	Available		
	Monitoring	Independent monitoring and centralized monitoring		
Mechanical Properties	Net Weight	24.5kg/51kg		130kg
	Dimensions (W*D*H mm)	444×149×641 520×237×759	501×609×142 581×729×230	300×635×1370.5
Ambient Standards	Altitude	1,000m, for every increased 100m, the power is reduced by 1%.		
	Operating Temperature	-20℃-45℃		
	Relative Humidity	5% to 95%,non-condensing		
	Protection Class	IP20		
Related Standards	Directive	2014/30/EU 2014/35/EU		
	Standards Compliance	EN 61000-6-2:2005+AC:2005 EN 61000-6-4:2007+A1:2011 EN 50178:1997 IEEE519		

Series reference. Apply the capacity, mounting type and units shown in this figure.

Technical reference



Series reference. Apply the capacity, mounting type and units shown in this figure.

Technical reference

Transformer Capacity (kVA)	Capacity and Quantity of Active Power Filter (Three-phase Four-wire)	Capacity and Quantity of Active Power Filter (Three-phase Three-wire)
200	IF-AHF-A4-50/0.4	IF-AHF-A3-50/0.4
250/315	IF-AHF-A4-50/0.4	IF-AHF-A3-75/0.4
400	IF-AHF-A4-75/0.4	IF-AHF-A3-75/0.4
500/630	IF-AHF-A4-75/0.4	IF-AHF-A3-100/0.4
800	IF-AHF-A4-100/0.4	IF-AHF-A3-150/0.4
1000	IF-AHF-A4-100/0.4	IF-AHF-A3-200/0.4
1250	IF-AHF-A4-150/0.4	IF-AHF-A3-250/0.4
1600	IF-AHF-A4-200/0.4	IF-AHF-A3-300/0.4
2000	IF-AHF-A4-200/0.4	IF-AHF-A3-400/0.4
2500	IF-AHF-A4-300/0.4	IF-AHF-A3-250/0.4×2
Scope of Application	Business center, office building, hotel, hospital, data center, theater and other occasions with relatively much single-phase load	Chemical, metallurgy, communication, textile, papermaking, printing, tobacco, automobile, port and other occasions with relatively much three-phase load

Note: Types M, B and G can be selected according to field situation.

Series reference. Apply the capacity, mounting type and units shown in this figure.