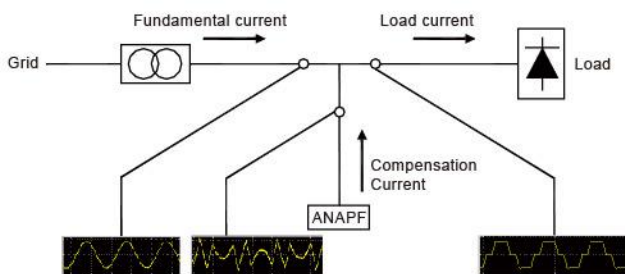


ANAPF



Principles of the ANAPF

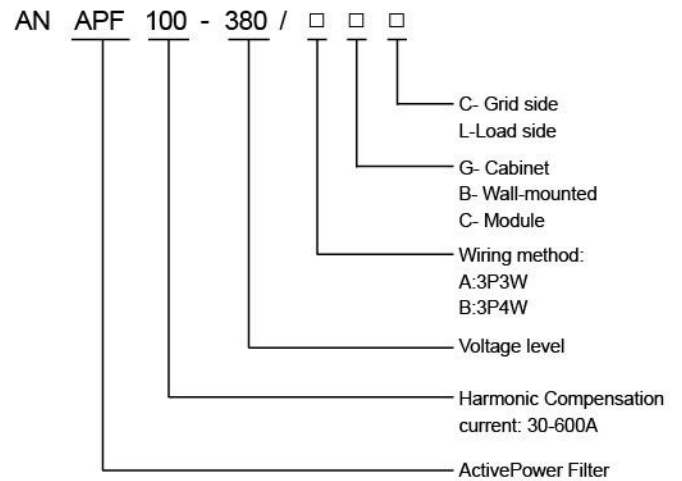
The active power filter is a new type of power electronic device used for controlling harmonics, compensating reactive power, and regulating imbalance. When the equipment is connected in a low-voltage distribution system with harmonic loads in parallel, the integrated intelligent control system could automatically adjust the output of the module according to the linear dynamic demand of the system. The whole machine is mainly composed of multiple ANAPF modules to meet the actual requirements of compensating. In addition, the device also has a 7-inch LCD screen which communicates with the module in real time via the RS485 protocol, enabling users to interact with the device.



The schematic of ANAPF

Self-loss	≤2.5%
Efficiency	≥98%
Total harmonic compensation rate	≥ 97%
Cooling method	Forced air cooling
Noise	≤60dB
Operating temperature	-10℃ ~ +45℃
Storage temperature	-25℃ ~ +60℃
Relative humidity	≤95%(No condensation)
Altitude	≤1000m
Protection level	IP20
Communication	RS485(Modbus-RTU) or Ethernet(Modbus-TCP)
Module capacity	30A, 50A, 75A or 100A
Working mode	Automatic or manual
Overload protection	Automatic limit to rated current output

Model Description



Technical Parameter

Wiring method	Three-phase three-wire, Three-phase four-wire
Rated voltage	380V ±10%
Rated frequency	50Hz ±2%
Compensation method	Linear compensation
Response time	Full response time≤5ms, Instantaneous response time≤100μs
Switching frequency	20kHz
Function setting	Compensate for harmonics only, compensate for reactive power only, compensate for both harmonics and reactive power
The frequency of harmonic compensation	2-51st, 2-31st

Structure and size

MODULE:

