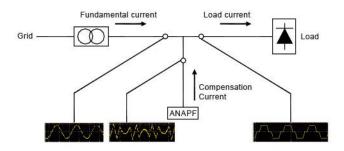


ANAPF



Principles of the ANAPF

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

Cooling method Forced air cooling Noise ≤60dB -10°C ~+45°C Operating temperature -25°C~+60°C Storage temperature Relative humidity ≤95%(No condensation) Altitude ≤1000m Protection level **IP20** The active power filter is a new type of power electronic device RS485(Modbus-RTU) or Ethernet(Modbus-TCP) Communication Module capacity 30A, 50A, 75A or 100A Working mode Automatic or manual Overload protection Automatic limit to rated current output

Self-loss

Efficiency

Total harmonic

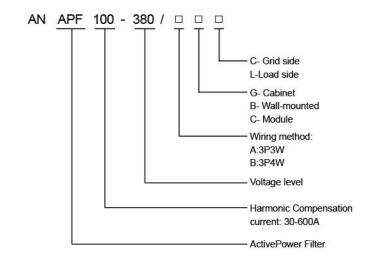
compensation rate

≤2.5%

≥98%

≥ 97%

Model Description

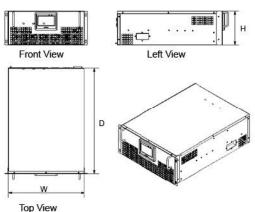


Technical Parameter

Three-phase three-wire, Three-phase four-wire
380V ±10%
50Hz ±2%
Linear compensation
Full response time≤5ms, Instantaneous response time≤100µs
20kHz
Compensate for harmonics only, compensate for reactive power only, compensate for both harmonics and reactive power
2-51st,2-31st

Structure and size

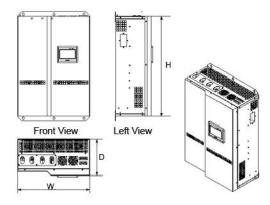
MODULE:







Wall-mounted:



Top View

Active Power Filter	Module Size(W*D*H)(mm)	Weight(kg)
30A	480*440*130	25
50A	480*530*200	30
75A	450*622*201	35
100A	450*622*201	35

Active Power Filter	Module Size(W*D*H)(mm)	Weight(kg)
30A	480*130*440	25
50A	480*200*530	30
75A	450*201*622	35
100A	450*201*622	35

LCD operation

■ Main interface

The main interface is used to display the grid parameters of all modules. Besides that, the communication connection status of each module could be switched through the green button at the bottom, and the specific parameters and control interface of each module could be entered by clicking the device name at the top. The interface is shown as below.

2019111319.0654	Device 1	Device 2	Device 3	Device 4	Device 5	Device 6
COS¢						
A-jmase Grid Voltage (v)	0.0	0.0	0.0	0.0	0.0	0.0
R-phase Gid Voltage (1)	0.0	0.0	0.0	0.0	0.0	0.0
C-phase Grid Voltage (V)	0.0	0.0	0.0	0.0	0.0	0.0
A-phoseDevice Coreer (8)	0.0 A	0.0	0.0	0.0	0.0	0.0
B-phase Device Conent (A)	0.0	0.0	0.0	0.0	0.0	0.0
C phase Davies Curson (A)	0.0	0.0	0.0	0.0	0.0	0.0
N-phase Device Current (4)	0.0	0.0	0.0	0.0	0.0	0.0
State	Test	Test	Test	Test	Test	Test
On/Off	0	0	0		0	0

System information interface

The system information interface is used to display the electrical parameters of each module and control the running state of them. The interface is shown as below.

Mair		Device 1	Device 2	Device 3	Device 4	Device 5	Device 6
Grid P	arame	ter 🗦	Device	Current	L	oad Curre	nt militato
соѕФ	0.00	,	Ia	0.0	- 1	a 0.0	> 1
Ua	0.0		Ib	0.0	1	b 0.0	
UЬ	0.0		1c	0.0	1	c 0.6	>
Uc	0.0		In	0.0	1	n 0.0	
Set Up	5	at Down	Compensation	Stanti	y Salf	Check	Tect
System Menu Fr			rult: Menu	AF	F SET	Faram	eter SET

Fault information interface

The fault interface allows users to view the faults of every equipment and it also indicates the trigger time and recovery time for each fault. The interface is shown as below.

Fault Recorde 1										
Num.	No.	Triger date	Triger time	Recover date	Recover time	Alarm Events				
						-1	11			
Sys	tem Me	nu	Facilt Menu	APE	SET	Parameter SET				

■ Parameter setting interface

The parameter setting interface is used to set the parameters of every module. In addition, the compensation priority and the operation mode could also be switched on this interface. The interface is shown as below.

			Compensat	tion 9	etting 1		Mont
No.	Туре	Current Value	Set Value	No.	Туре	Current Value	Set Value
1	Compensation priority	Reactive - Harm	onc-Unbalance	6	Operation Mode	Manual	OH 🌑
2	Asphase CT Ratio	+0.00	+0.00	7	Number of Mold	0.00	
3	Riphosa CT Bakn	+0.00	+0.00	8	Naciative wiscence rate	-1.00	0.00
4	C-phase CT Ratio	+0.00	+0.00	9	Harmonic Rasio	-1.00	0.00
5	Neactive power rate	-1.00	0.00	10	Can selmance one	-1.00	0.00
1	System Menu	Fault	Mina		API SET	Parame	tor SET

Wiring Diagram

