# YTPQC Offer Active Harmonic Filter 220~480V/50(60)HZ Low voltage network





### **Environment**

- Installation: Indoor/Outdoor
- Ambient temperature: -20~55°C
- Average daily temperature:35°C
- Humidity:95%max

### **Connection mode**

- 3P4W
- 3P3W

### **Environment certifications**

- ISO 9001:2015
- ISO 14001:2015
- CE
- Type Test Report

YTPQC-AHF which is in parallel to power grid can detect the harmonic wave in power grid in time, generate the reverse-phase compensation current through the converter and dynamically filter the harmonic wave in power grid.

Options available through page 2

# **General characteristics**

Electrical Specification	ons	
Rated voltage	220~480V±15%	
Electric Connection	3 Phase 4 Wire/ 3 Phase 3 Wire	
Rated Frequency	50/60Hz±5%	
Compensation Mode	Reactive power compensation	
•	Harmonic compensation	
	3 phase imbalance compensation	
	Conventional capacitor switching	
Harmonics Filtering	Typically, THDi ≤ 5% at rated load	
Effect	(Even with most complex loads).	
Filter range	2nd~51st odd order harmonics	
	(Selective or Full compensation)	
Rated of Harmonic	≥ 97% (For typical harmonic order	
Reduction	distortions)	
Target Power Factor	Adjustable from -1.0 to +1.0	
3 Phase Load Balancing	≤ 5%, Mitigate negative and	
Effect	zero sequence	
Neatral Filtering Capacity	3 times the rated filter current	
	(in case of 4 wire device)	
Reactive Power	Both inductive and capacitive reactive	
Compensation Capability	power compensation	
3 phase imbalance	<5%(At the capacity is sufficient)	
performance		
Imbalance Correction	Mitigate negative and zero sequence	
Capability		
Overall Response time	≤ 5ms	
Initial Response time	≤ 50us	
Thermal Loss	≤ 2.5% of SVG rated capacity (kVA)	
Output Current Limitation	Automatic (100% rated capacity)	
Switching/control	25.6kHz	
frequency		
Control Technology		
Human Machine Interface	7" HMI(Touched&Colorized LCD	
(HMI)	Screen)	
Topology	3 Level IGBT	
Control algorithm	Intelligent FFT,Self-adaptive control	
	algorithm	
Controller	DSP+FPGA	
Control connection	Fiber or electrical connection	
Physical Specification	1	
IP Grade of Cabinet	IP20	
Cooling method	Speed regulation intelligent air	
	cooling PWM Fans	
Noise Level	<60db (<45db during low-speed	
	operation)	
Protection	Hardware protection, Software	
	protection	
Environmental Requi	rement	
Ambient Temperature	−20~55 °C	
Relative Humidity	0~95%	
Altitude	≤ 2000 at rated capacity;	
,	appropriately reduce the capacity	
	if it is > 2000(1% derating per 100m)	
	2000(170 dorading por 100111)	



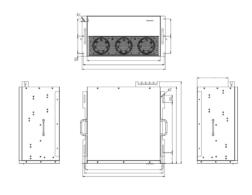
#### **AHF Active Harmonic Filter**

# References

Rated voltage	Ststem voltage
220/400 VAC	171~269V/300~456V
220/400 VAC	171~269V/300~456V
220/400/480 VAC	171~269V/300~456V/356~515V
220/400/480 VAC	171~269V/300~456V/356~515V
220/400/480 VAC	171~269V/300~456V/356~515V
400/480/ VAC	300~456V/356~515V
220/400/480 VAC	171~269V/300~456V/356~515V

Type
YTPQC-AHF/15
YTPQC-AHF/25
YTPQC-AHF/50
YTPQC-AHF/75
YTPQC-AHF/100
YTPQC-AHF/125
YTPQC-AHF/150

### Dimensions



Туре	
YT-AHF/15-4-4L	
YT-AHF/25-4-4L	
YT-AHF/50-4-4L	
YT-AHF/75-4-4L	
YT-AHF/100-4-4L	
YT-AHF/125-4-4L	
YT-AHF/150-4-4L	

Size (W*D*H)	Ν	let Weight (kg)
320*400*125		11
320*400*125		15
505*550*190		30
505*550*190		35
505*570*280		50
505*570*280		54
505*570*280		57

## Accessories ordering codes

YTPQC-HMI

7 inch Human Machine Interface, Touched LCD Screen with matched cables

### Modules Pictures

Horizontal Rack Module

Wall Mounted Module

Vertical Rack Module







