

YTPQC Offer

Active Harmonic Filter

220~480V/50(60)HZ

Low voltage network

www.ytelect.com



General characteristics

Electrical Specifications

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 Effect	Typically, THDi ≤ 5% at rated load (Even with most complex loads).
Filter range	2nd~50st odd order harmonics (Selective or Full compensation)
Rated of Harmonic Reduction	≥ 97% (For typical harmonic order distortions)
Target Power Factor	Adjustable from -1.0 to +1.0
3 Phase Load Balancing Effect	≤ 5%, Mitigate negative and zero sequence
Neutral Filtering Capacity	3 times the rated filter current (in case of 4 wire device)
Reactive Power Compensation Capability	Both inductive and capacitive reactive power compensation
3 phase imbalance performance	<5%(At the capacity is sufficient)
Imbalance Correction Capability	Mitigate negative and zero sequence
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 frequency	25.6kHz

Control Technology

Human Machine Interface (HMI)	7" HMI(Touched&Colorized LCD Screen)
Topology	3 Level IGBT
Control algorithm	Intelligent FFT, Self-adaptive control algorithm
Controller	DSP+FPGA
Control connection	Fiber or electrical connection

Physical Specification

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 Requirement

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)

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



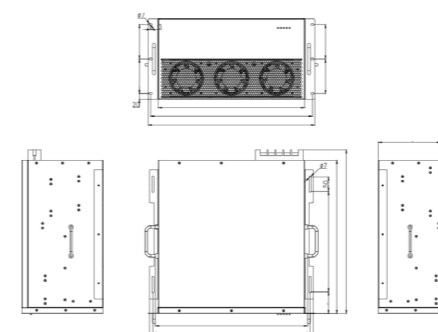
AHF

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References

Rated voltage	System voltage	Rated current	Type
220/400 VAC	171~269V/300~456V	15A	YTPQC-AHF/15
220/400 VAC	171~269V/300~456V	25A	YTPQC-AHF/25
220/400/480 VAC	171~269V/300~456V/356~515V	50A	YTPQC-AHF/50
220/400/480 VAC	171~269V/300~456V/356~515V	75A	YTPQC-AHF/75
220/400/480 VAC	171~269V/300~456V/356~515V	100A	YTPQC-AHF/100
400/480/ VAC	300~456V/356~515V	125A	YTPQC-AHF/125
220/400/480 VAC	171~269V/300~456V/356~515V	150A	YTPQC-AHF/150

Dimensions



Type	Size (W*D*H)	Net Weight (kg)
YT-AHF/15-4-4L	320*400*125	11
YT-AHF/25-4-4L	320*400*125	15
YT-AHF/50-4-4L	505*550*190	30
YT-AHF/75-4-4L	505*550*190	35
YT-AHF/100-4-4L	505*570*280	50
YT-AHF/125-4-4L	505*570*280	54
YT-AHF/150-4-4L	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

