

# YTPQC Offer

## Advanced Static Var Generator

### 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 mitigation 3 phase imbalance compensation Conventional capacitor switching
Harmonics Filtering Effect	Typically, THDi ≤ 5% at rated load (Even with most complex loads).
Filter range	3rd~25th odd harmonics, Max 100% of rated capacity
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 (limited within 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
Communication protocols	Adopt Modbus remote communication protocol; communication interface adopts RS485 and CAN bus, supporting mobile phone APP operation.

#### 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	Maximum 95%, without condensation
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

Compared with the traditional capacitor bank, YTPQC Advanced Static Var Generator has the advantages of fast response and high compensation accuracy without under-compensation or over-compensation problems, avoid resonance, etc.

Options available through page 2

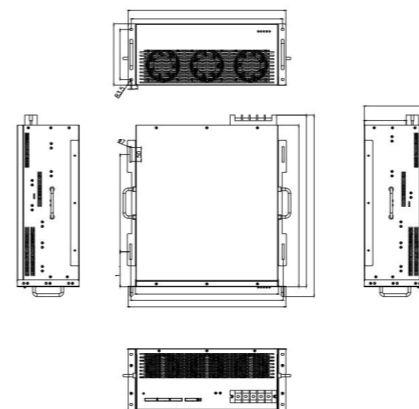


## ASVG

### References

Rated voltage	System voltage	Rated current	Type
220 VAC	171~269V	25A	YTPQC-ASVG/9.5
220 VAC	171~269V	53A	YTPQC-ASVG/20
220/400 VAC	171~269V/408~515V	79A/45A	YTPQC-ASVG/30
220 VAC	171~269V	105A	YTPQC-ASVG/40
220 VAC	171~269V	144A	YTPQC-ASVG/55
400/480 VAC	340~456V/408~515V	75A/60A	YTPQC-ASVG/50
400/480 VAC	340~456V/408~515V	108A/90A	YTPQC-ASVG/75
400/480 VAC	340~456V/408~515V	150A/120A	YTPQC-ASVG/100

### Dimensions



Type	Size (W*D*H)	Net Weight (kg)
YT-ASVG/30-4L	450*515*160	20
YT-ASVG/50-4L	450*515*160	26
YT-ASVG/75-4L	505*616*220	48
YT-ASVG/100-4L	505*616*220	55

### Accessories ordering codes

YTPQC-HMI	7 inch Human Machine Interface, Touched LCD Screen with matched cables
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### Modules Pictures

Horizontal Rack Module



Wall Mounted Module

