Static Var Generator

Optimal Power Factor Correction

- Continuous power factor correction
- Accurate PF maintenance $-1.0 \le Cos \Phi \le 1.0$
- Capacitive and inductive control
- No overcompensation or undercompensation
- Mixed power factor correction

Quality Assurance

- TI DSP, Top Brand IGBT (Infineon)
- High stability, resonance avoidance
- Hardware and software protection
- High reliability testing

YT ELECTRIC Making Every Watt Count

Good environmental adaptation

Power nsp van

Advanced Performance

- Harmonic Control
- Three-phase load balancing
- Low noise
- Friendly human-machine interface

Rated Voltage	220V	400V	480V	690V	
	(171-269V)	(300-456V)	(356-515V)	(483-793V)	
Rated Capacity	10/20/30/40/50kvar	30/50/75/100/150kvar	30/50/75/100kvar	150/175/200kva	
Phase System	3P3W/3P4W/single phase				
Main Frequency	50/60Hz±5%				
Circuit Topology	Three-level	Three-level			
Multiple Compensation Modes	Reactive power compensation, three-phase load imbalance compensation				
Filter Range	Filtering range 2 to 25th odd harmonics, 100% of rated capacity				
Harmonic Reduction Rate	≥97.5% of rated c	≥97.5% of rated capacity			
Filtering Performance	Typically, THDi ≤ !	Typically, THDi ≤ 5% for rated loads			
Neutral Line Filtering Capability	3 times the rated	3 times the rated filtering current in case of 4-wire equipment			
Three-Phase Load Balancing Effect	≤ 5% to mitigate negative and zero sequence currents				
Switching/Control Frequency	25.6kHz	25.6kHz			
Initial Response Time	≤50us	≤50us			
Total Response Time	≤5ms	≤5ms			
System Active Loss	≤2.5 per cent	≤2.5 per cent			
Output Current Limit	Automatically lim	Automatically limited to 100% output of rated capacity			
Control Algorithm	FFT, Adaptive Cor	FFT, Adaptive Control Algorithm , Fast Fourier & Instant Reactive Power Algorithms			
Controller	DSP+FPGA	DSP+FPGA			
Protection	Hardware protect	Hardware protection, software protection			
Control Connections	Electrical Connections				
Human Machine Interface	4.3-inch / 7-inch	4.3-inch / 7-inch / 10-inch touch TFT LCD HMI			
Noise	<60db (<45db at	<60db (<45db at low speed operation)			
Installation Method	Module embedded (rack), wall-mounted, floor-mounted				
Protection Level	IP20~IP54	IP20~IP54			
Cooling Method	Speed Control Int	Speed Control Intelligent Air-cooled Cooling PWM Fan			
Colour	RAL 7035 Industrial Grey/Black				
Ambient Temperature	-20~55°C	-20~55°C			
Relative Humidity	95% max, no condensation				
Installation Height Above Sea Level	Rated capacity at	Rated capacity at altitude ≤2000m, appropriate load shedding at altitude >2000m			
Qualification	CE, IEEE61000, Ty	CE, IEEE61000, Type Test Report, ISO9001:2015			
Conformity	IEEE 519, ERG5/4	IEEE 519, ERG5/4			
Communication Protocol	Adopts Modbus R way RS485 and C	Adopts Modbus RTU remote communication protocol and TCP/IP protocol; Two way RS485 and CAN bus, support mobile phone APP operation. support Ethernet			