

SPU series static var generator



cabinet type

Rack type

Rack mounted

Excellent reactive power compensation performance

Capacitive and inductive load $-1 \sim 1$ compensation effect; Fast bi-directional linear adjustment of reactive power, effectively avoiding over and under compensation; 0.99 level reactive power compensation function.

Low-order filtering

Built-in low-order filtering function; Effectively filter out the 3rd, 5th, 7th, 11th, and 13th harmonics

Great compensation modes

Adjustable power factor; Reactive power tracking; Voltage stabilization mode; Fixed reactive power.

High quality of core devices

IGBT imported from Germany, advanced three-level technology; American TI's high-end industrial control chip (28377), dual-core 32CPU + 2CLA, clocked at 200MHz.

Flexible configuration, safe and reliable, User friendly HMI

Supports up to 24 control outputs, which can be freely combined with traditional reactive power compensation to form a hybrid compensation device; the module itself has small losses and basically requires no maintenance in the later stage; Long service life, MTBF is greater than 100,000 hours.

Through the graphical display interface, the user can understand the power quality improvement of the system such as the waveform diagram, active power, reactive power, apparent power, current effective value, and power factor of the system before and after compensation.

Product specification	30kvar	50kvar	75kvar	100kvar	200kvar	cabinet type
System parameters						
Grid voltage	400V/690V (-40%,+20%)					
Rated frequency	50/60±5%Hz					
Wiring system	Three-phase three-wire, three-phase four-wire					
Circuit topology	Three level					
Performance index						
Reactive power compensation capacity	30kvar	50kvar	75kvar	100kvar	200kvar	cabinet type
Reactive power compensation capacity	Continuously adjustable capacity					
Reactive power compensation range	Adjustable power factor; reactive power tracking; stable voltage method; fixed reactive power					
Filtering ability	Low-order filtering (3 times, 5 times, 7 times, 11 times, 13 times)					
Three-phase unbalance compensation capability	three-phase unbalance compensation capability					
Full response time	Harmonic compensation≤20ms; reactive power compensation≤10ms					
Machine efficiency	> 97%					
Passive output function	Supports up to 24 passive outputs, working with traditional reactive power compensation components and smart capacitors					
Parallel operation capability	Supports up to 10 modules in parallel					
Protection method	Grid over and under voltage, grid over and under frequency, input voltage reverse order, over current, over heat, overload automatic current limit protection, bus short circuit					
Cooling method	Intelligent air cooling, automatic adjustment of air volume according to heat dissipation conditions and load					
Noise	≤70dB					
Communication and monitoring						
Protocol	Modbus protocol					
Communication Interface	RS485/RS232 /Ethernet communication interface optional					
Monitoring module	8-inch LCD touch screen monitoring module (can achieve active + passive unified control)					
Display content	Real-time running information such as voltage, current, frequency, power factor, waveform curve, parameter setting, record query,etc.					
Mechanical properties						
IP rating	IP20(others can be customized)					
Dimension	refer to product mechanical characteristics for details					Specific reference Cabinet Capacity
Weight	refer to product mechanical characteristics for details					
Color	RAL7035					
Environmental requirements						
Operating temperature	-25°C~+50°C, derating operation above 45°C					
Relative humidity	5%~95%, no frost					
Altitude at Full Load	2000m, exceeding derating operation					
Related qualifications						
Certification	CQC certification, type test report					