



2 Hybrid Reactive Power Compensation Device Series (HY-HSVG)

Hybrid Reactive Power Compensation Device Series

HY-HSVG hybrid reactive power compensation device combines the power electronics technology with the traditional passive compensation technology to realize the complementary advantages of graded compensation and flexible compensation. The device consists of an SVG module and a capacitor bank, in which the SVG module can continuously compensate for the reactive power of rapid changes in the power grid, and the capacitor bank compensates for the reactive power of the relative stability in the grid. Device can not only realize accurate compensation of reactive power, and can avoid traditional passive compensation device to occur over-compensation and under-compensation, suitable for the place with large amount of reactive power compensation and high dynamic compensation.

PRODUCT FEATURE

High performance cost ratio

- Combine active and passive, passive reduces cost

Man-machine coordination

- Real-time display waveform and data of power quality.

High accuracy, low power consumption

- $\cos \phi \geq 0.99$, No over-compensation, under-compensation
- Device power consumption $\leq 1.5\%$

Better reliability

- The core components are imported
- Performance parameters online automatic proofreading
- Over voltage, under voltage, over temperature, overload and other protections

Response quickly

- Response time $\leq 10\text{ms}$

Strong filtering capability

- filter 2-13times harmonic

Remote monitoring

- Multiple communication interface (RS485/RS232/WIFI/ bluetooth), standard communication protocol
- Cloud monitoring platform, big data analysis

Double directions compensation

- Capacity and sensibility can be compensated

High performance

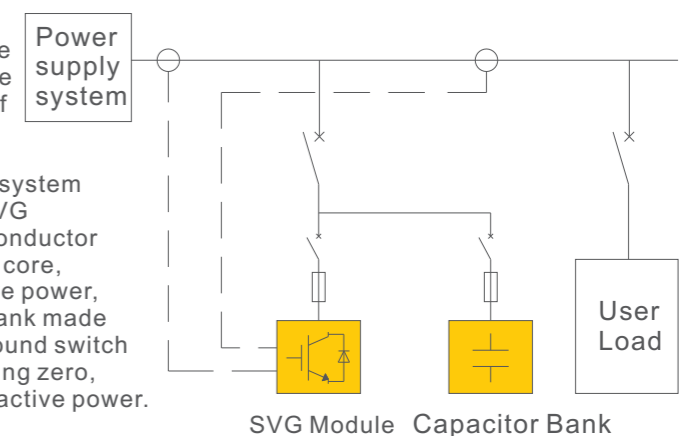
- Active eliminates the phase step of passive output, improve passive output characteristics

Easy to install, debug and maintain

- Modular design, wall-mounted or rack-mounted or cabinet-mounted installation
- Phase sequence automatic identification, no need to distinguish positive sequence
- The current transformer direction can be automatically identified

WORKING PRINCIPLE

HY-HSVG hybrid reactive power compensation device is composed of SVG module and power supply system of capacitor BANK (SRC compensation branch/TSC compensation module and system power supply block), the SVG module takes power semiconductor device IGBT module as the core, rapidly compensate reactive power, and control the capacitor bank made of thyristor switch or compound switch to carry out operating passing zero, compensation for stable reactive power.



Note: HY-HSVG has no standard technical parameters, according to the specific engineering application