Static Var Generator

High Voltage, Cabinet Design

Product overview

SPGL SVGH series high voltage active reactive power compensation device SVG is composed of high-power power electronic device IGBT. The whole device is equivalent to a controllable current source, which can automatically track the change of load and adjust the output of the device to send a compensation current with the same size and opposite direction as the load reactive current into the power grid to offset the load reactive current, so as to eliminate the system reactive power and improve the power factor The purpose of the number.

SVGH series high voltage SVG device adopts single-phase chain structure, and its inverter circuit is composed of multiple links, each link is a single-phase inverter unit module, each phase has 12 links, and the whole device has 36 links in total.

When SVGH high-voltage SVG device is running, each link is controlled separately, and there is no problem of continuity consistency. Therefore, its operation reliability is high and the failure rate is low. When an inverter unit module is damaged, it can work normally by replacing it with a new inverter unit module, which is convenient for use and maintenance.

Main specifications and models of SVG series high voltage

SVG active reactive power compensation device

Design and Order No.	SVG Tolerance (%)	SVG output current (A)	Cooling by	Dimension SVG (H 3.5m)		Dimension FC (H 3.5m)	
				L (m)	W (m)	L (m)	W (m)
SVGh-10kV/2M	±2	115	Air	9	3.5	9	3
SVGh-10kV/2.5M	±3	144	Air	9	3.5	9	3
SVGh-10kV/3M	±3	173	Air	9	3.5	9	3
SVGh-10kV/4M	±3	230	Air	9	3.5	9	3
SVGh-10kV/5M	±5	288	Air	10	3.5	10	3
SVGh-10kV/8M	±8	461	Air	11	3.5	11	3.5
SVGh-10kV/9M	±8	519	Air	11	3.5	11	3.5
SVGh-10kV/10M	±10	577	Air	11.5	3.5	11.5	3.5
SVGh-10kV/12M	±10	690	Air	11.5	3.5	11.5	3.5
SVGh-10kV/15M	±15	866	Air	14.5	3.5	14.5	3.5
SVGh-10kV/18M	±20	1038	Water	15.5	3	15.5	3
SVGh-10kV/20M	±20	1154	Water	15.5	3	15.5	3
SVGh-10kV/25M	±20	1440	Water	15.5	3	15.5	3
SVGh-10kV/27M	±20	1557	Water	15.5	3	15.5	3
SVGh-10kV/30M	±30	1732	Water	16.5	3	16.5	3
SVGh-10kV/36M	±40	2070	Water	16.5	3	16.5	3

Explain:

The SVG device with higher voltage level can be realized by transformer boost

Other specifications are also available