

220V 60 HZ eGEO Hybrid Solution Datasheet



TECHNICAL DATA

Product Name	220V 60HZ eGEO Hybrid
Factory Model	ZD-SVG

ELECTRICAL SPECIFICATION

Rated Voltage	AC 220V $\pm$ 10%
Electric Connection	3 Phase 4 Wire
Rated Frequency	60Hz $\pm$ 5%
Rated Current Per Module	5kVAr (15A) / 10kVAr (25A) / 20kVAr (50A) / 40kVAr (100A)
Redundancy	Each module is an independent compensation system
Compensation Mode	Reactive power, 3 phase imbalance
Reactive Power Compensation Performance	$-0.99 \leq \cos\phi \leq 0.99$ after compensation (At rated load)
Reactive Power Compensation Capability	Both inductive and capacitive reactive power compensation
Imbalance compensation Performance	$\leq 5\%$ (At the sufficient capacity)
Mitigate Negative and Zero Sequence	Yes
Full Response Time	$\leq 5\text{ms}$
Instant Response Time	$\leq 50\mu\text{s}$
Thermal Loss	$\leq 2.5\%$ of SVG rated capacity (kVA)
Output Current Limitation	Automatic (100% rated capacity)
Parallel Expansion(System)	Up to 12 racks

CONTROL TECHNOLOGY

Human Machine Interface(HMI)	7" Colorized Liquid Crystal Display(LCD) Screen
Topology	3 Level IGBT
Communication	RS485
Monitoring	TESLA HMI Monitor Software

PHYSICAL SPECIFICATION

IP Grade of Module	IP20
Cooling Method	Intelligent forced air cooling
Noise Level	$< 65\text{dB(A)}$ @1m (Module)
Dimension(W*D*H/mm)	Refer to manual
Weight(Kg)	Refer to manual

ENVIRONMENTAL REQUIREMENT

Ambient Temperature	$-10 \sim 50^\circ\text{C}$
Relative Humidity	0~95%
Altitude	$\leq 1500\text{m}$ Rated Capacity, 1500~2000m (derating 1% per 100m)