

440V 60 HZ eGEO Hybrid Solution Datasheet



TECHNICAL DATA

Product Name	440V 60HZ eGEO Hybrid
Factory Model	ZD-SVG

ELECTRICAL SPECIFICATION

Rated Voltage	AC 440V $\pm$ 15%
Electric Connection	3 Phase 4 Wire
Rated Frequency	60Hz $\pm$ 5%
Rated Current Per Module	40kVAr(50A) / 80kVAr(100A)
Redundancy	Each module is an independent compensation system
Compensation Mode	Reactive power, 3 phase imbalance
Reactive Power Compensation Performance	-0.99 $\leq$ Cos ϕ $\leq$ 0.99after 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	$\leq$ 5ms
Instant Response Time	$\leq$ 50 μ 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	< 65dB(A) @1m (Module)
Dimension(W*D*H/mm)	Refer to manual
Weight(Kg)	Refer to manual

ENVIRONMENTAL REQUIREMENT

Ambient Temperature	-10~50 °C
Relative Humidity	0~95%
Altitude	$\leq$ 1500m RatedCapacity, 1500~2000m (derating 1% per 100m)