DG-SMC1000 Series
Smart Microgrid Cabinet



Preliminary Version

Automatic switching

- Real-time monitoring of grid, DG, and load with automatic on / off-grid transfer in <70ms.

Seamsless switching

- Upgradeable to 20 ms seamless switching — zero-perception switching for highly sensitive loads.

Intelligent algorithm

- Built-in intelligent algorithms predict grid conditions, eliminating mechanical switch delays and switching surges.

Seamless PV-storage-diesel collaboration

- Smooth switching across PV, battery storage, and diesel generators for optimized multi-source coordination.

This datasheet is intended solely as a reference for product selection. Product specifications, parameters and functions may change due to version upgrades. The final technical specifications shall be based on the contract.

Model	DG-SMC1000-250kVA-M0	DG-SMC1000-500kVA-M0	DG-SMC1000-750kVA-M0	DG-SMC1000-1000kVA-M0	DG-SMC1000-1250kVA-M0
Electrical Information					
Rated power	250kVA	500kVA	750kVA	1000kVA	1250kVA
Rated current	361A	722A	1083A	1443A	1804A
Main Incoming Switch	1×400A,4P	1×800A,4P	1×1250A,4P	1×1600A,4P	1×2000A,4P
Load-side Switch	1×250A,3P	1×400A,3P	1×630A,3P	1×800A,3P	1×1000A,3P
PV Inverter Switch	1×500A,3P	2×500A,3P	3×500A,3P	4×500A,3P	5×500A,3P
PCS Switch	1×250A,4P	2×250A,4P	3×250A,4P	4×250A,4P	5×250A,4P
Generator Incoming Switch	1×250A,4P	1×400A,4P	1×630A,4P	1×800A,4P	1×1000A,4P
Rated Frequency	50Hz/60Hz				
Rated voltage	AC400V, 3W+N+PE				
Switching Time	≤70ms (Standard); ≤20ms (Optional) ;				
General Information					
Protection class	IP55				
Overvoltage Category	OVC IV (IEC 60664-1)				
Surge Protection Device	Type 2				
Relative humidity	0~95% (No condensing)				
Ambient Temperature	-35℃~55℃ (Derating above 45℃)				
Corrosion Protection Level	C4M (Standard) C5H (Optional)				
Altitude	5000m (≥2000m derating)				
Dimensions (W*D*H)	1000*1000*2150mm			1250*955*2200mm	1450*955*2200mm
Weight	1000 kg			>1000 kg	>1000 kg
Cooling Method	Smart Air Cooling				
Cable Entry	Bottom-in / Bottom-out				
Communication Interface	RS485/CAN/Ethernet				
Communication Protocol	Modbus RTU;Modbus TCP				
Standards Conformity					
IEC61439-1、IEC61439-2					

Preliminary Version, DOGO Power may modify the specifications without prior notice. Thank you for your understanding.