

DG-SMC1000 Series

Smart Microgrid Cabinet



High Reliability

High-speed switching response, no power interruption to the load



Low Maintenance

Bypass power supply for reliable load power



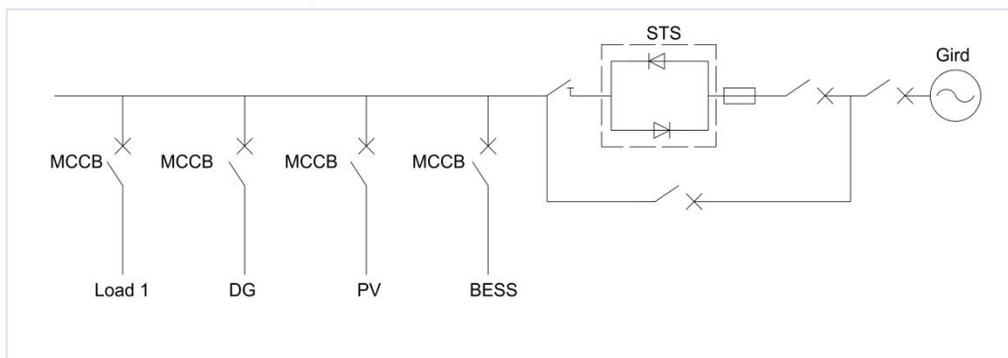
Modular

Modular structure for easy expansion and minimal fault impact



Multiple Applications

High PV-ESS-Diesel-Load ratio
2:1:1:1



SMC Schematic Diagram

Statement:

This product datasheet to be as detailed and comprehensive as possible based on existing information. The company reserves the full right to modify data, parameters, and other information. The final interpretation belongs to DoGo Power.

Model		DG-SMC1000-300kVA-M0	DG-SMC1000-500kVA-M0
Grid Side	Rated Active Power(kW)	300	500
	Rated Apparent Power(kVA)	300	500
	Max. AC Current(A)	433	722
	Rated Voltage(V)	3L/N/PE, 400/230	
	Input Voltage Range	-15%~+15%	
	Frequency(Hz)	50/60	
	Rated Short-Circuit Current(A)	10K	
	Overvoltage Category	CAT III	
Load Side	Rated Active Power(kW)	300	500
	Rated Apparent Power(kVA)	300	500
	Max. AC Current(A)	433	722
	Rated Voltage(V)	3L/N/PE, 400/230	
	Input Voltage Range	-15%~+15%	
	Frequency(Hz)	50/60	
	Rated Short-Circuit Current(A)	10K	
	Overvoltage Category	CAT III	
PV Side	Rated Active Power(kW)	300*2	500*2
	Rated Apparent Power(kVA)	300*2	500*2
	Max. AC Current(A)	433*2	722*2
	Rated Voltage(V)	3L/N/PE, 400/230	
	Input Voltage Range	-15%~+15%	
	Frequency(Hz)	50/60	
	Rated Short-Circuit Current(A)	10K	
	Overvoltage Category	CAT II	
ESS Side	Rated Active Power(kW)	300	500
	Rated Apparent Power(kVA)	300	500
	Max. AC Current(A)	433	722
	Rated Voltage(V)	3L/N/PE, 400/230	
	Input Voltage Range	-15%~+15%	
	Frequency(Hz)	50/60	
	Rated Short-Circuit Current(A)	10K	
	Overvoltage Category	CAT II	
System Parameters	Max. Efficiency	>99.5%	
	Grid-tied / Off-grid Switching Time	≤20ms	
	Communication & Control	Node Control	
	Dimensions (W x D x H)	1X00×1X00×2X00mm	
	Weight(kg)	<1t	<1t
	Protection rating	IP55	
	Noise	≤75dB @ 1m	
	Operating temperature range	-30~+60°C (>45°C Derating)	
	Operating humidity range	≤100%	
	Cooling type	Forced air cooling	
	Altitude	≤4000m (≥2000m Derating, 1%/100m)	
	Pollution Degree	Degree 3 (External); Degree 2 (Internal)	
	IK Rating	IK10	
	Protection	Over-temperature protection (Thyristor switch ≥ 95°C)	

Note: This product datasheet is used only for the bidding of early projects