

SG2000/SG2500

Turnkey Station



Cost Effective

- No need inverter house on site
- Integrated ventilation duct and auxiliary power supply
- 8m² area easy for deployment and fast installation
- 10 feet standard shipping container



Easy Maintenance

- Integrated current detecting function for fast trouble shooting
- Modular design easy for maintenance
- Container door can be opened to 270° for maintenance



Secured Yield

- Maximum system efficiency up to 99%
- 1/4 MPPT, wide MPPT voltage range.
- No derating up to 50°C
- One inverter fails, the other units maintain safety operation



Flexible

- Complete grid support: LVRT, HVRT, ZVRT
- IP54 protection degree suitable for harsh environment condition



Input Side Data(DC)	SG2000	SG2500
Max. input voltage	1000V	
Start voltage	500V	540V
Min. working voltage	460V	520V
Max. input current	4880A	5424A
MPPT voltage range	460 ~ 850V	520 ~ 850V
No. of MPPTs	1 or 4	
Output Side Data(AC)		
Nominal AC output power	2000kW	2520kW
Max. AC output apparent power	2200kVA	2772kVA
Max. inverter output current	4032A	4444A
Rated grid voltage	315V	360V
Grid voltage range	252 ~ 362V	288 ~ 414V
Nominal grid frequency	50 / 60Hz	
Grid frequency range	45 ~ 55Hz / 55~65Hz	
THD	<3% (at nominal power)	
DC current injection	<0.5% of rated inverter output current	
Power factor range	0.8 (leading) ~ 0.8 (lagging)	
Efficiency		
Max. efficiency	99.0%	
Euro. efficiency	98.7%	
Mechanical Data		
Dimensions(W*H*D)	2991*2591*2438 mm 117.8**102.0**96.0"	
Weight	5700Kg 12566lb	
General Data		
Operating temperature range	-35 ~ 60°C (>50°C derating) -31~+140°F(>122°F derating)	
Auxiliary power supply	230Vac, 2kVA / Optional: 400Vac, up to 15kVA	
Cooling method	Temperature controlled air-forced cooling	
Protection Class	IP54 NEMA3R	
Max. relative humidity	0~95%, non-condensing	
Max. altitude	6000m(>3000m derating) 19685.0ft (>9842.5ft derating)	
Communication port	Standard: RS485, Ethernet; Optional: Optical fiber	
Protections & Functions		
Anti-PID function	Yes (For 1MPPT only)	
Grid support functions	LVRT, HVRT, ZVRT, Anti-Islanding, Active & reactive power regulation, PF control, Soft start/stop	
DC input protection	Circuit breaker	
AC output protection	Circuit breaker	
DC overvoltage protection	Type 2	
Grid monitoring	Yes	
Ground fault monitoring	Yes	
Overheat protection	Yes	
Insulation monitoring	Yes	