

## SG2000/SG2500

Turnkey Station



### Cost Effective

- No need for inverter house on site
- Integrated ventilation duct and auxiliary power supply
- 8 m<sup>2</sup> area easy for deployment and fast installation
- 10-foot standard shipping container



### Easy Maintenance

- Integrated current monitoring function for fast trouble shooting
- Modular design easy for maintenance



### Secured Yield

- Efficient three-level topology, maximum system efficiency up to 99 %
- 1/4 MPPT, wide MPP 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 (DC)	SG2000	SG2500
Max. input voltage	1000 V	
Start voltage	500 V	540 V
Min. working voltage	460 V	520 V
Max. input current	4880 A	5424 A
MPP voltage range	460 - 850 V	520 - 850 V
No. of MPPTs	1 or 4	
No. of DC inputs	16 - 32	
<b>Output (AC)</b>		
Nominal AC output power	2000 kW	2520 kW
Max. AC output apparent power	2200 kVA	2772 kVA
Max. inverter output current	4032 A	4444 A
Nominal grid voltage	315 V	360 V
Grid voltage range	252 - 362 V	288 - 414 V
Nominal grid frequency	50 / 60 Hz	
Grid frequency range	45 - 55 Hz / 55 - 65 Hz	
THD	< 3 % (at nominal power)	
DC current injection	< 0.5 % In	
Power factor range	0.8 leading - 0.8 lagging	
<b>Efficiency</b>		
Max. efficiency	99.00 %	
Euro. efficiency	98.70 %	
<b>General Data</b>		
Dimensions(W*H*D)	2991*2591*2438 mm 117.8**102.0**96.0"	
Weight	6 T 13227.7 lb	
Operating ambient temperature range	-35 to 60 °C (> 50 °C derating) -31 to 140 °F(> 122 °F derating)	
External auxiliary power supply	220 Vac, 2 kVA / Optional: 380 Vac, up to 15 kVA	
Cooling method	Temperature controlled air-forced cooling	
Ingress protection rating	IP54 NEMA3R	
Allowable relative humidity range	0 - 95 %, non-condensing	
Max. operating altitude	5000 m (> 3000 m derating) 16404.2 ft (> 9842.5 ft derating)	
Communication	Standard: RS485, Ethernet; Optional: Optical fiber	
<b>Protections &amp; Functions</b>		
Anti-PID function	Optional	
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 II	
AC overvoltage protection	Type II	
Grid monitoring	Yes	
Ground fault monitoring	Yes	
Overheat protection	Yes	
Insulation monitoring	Yes	