

# SG2500HV/SG3000HV NEW

Turnkey Station for 1500 Vdc System



### 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



### Secured Yield

- Efficient three-level topology, maximum system efficiency up to 99 %
- 1/2 MPPT, wide MPPT voltage range.
- No derating up to 50 °C
- One inverter fails, the other units maintain safety operation



### Easy Maintenance

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



### Flexible

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



Input (DC)	SG2500HV	SG3000HV
Max. input voltage	1500 V	
Start voltage	840 V	940 V
Min. working voltage	800 V	900 V
Max. input current	3508 A	
MPP voltage range	800 - 1300 V	900 - 1300 V
No. of MPPTs	1 or 2	
No. of DC inputs	20 - 24	
<b>Output (AC)</b>		
Nominal AC output power	2500 kW	3000 kW
Max. AC output apparent power	2750 kVA	3000 kVA
Max. inverter output current	2886 A	
Nominal grid voltage	550 V	600 V
Grid voltage range	440 - 632 V	480 - 690 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 % I <sub>n</sub>	
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 117.76**102.01**95.98"	
Weight	5.9 T 13007.27 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	4500 m (> 3500 m derating) 14763.8 ft (> 11482.9 ft derating)	4000 m (> 2000 m derating) 13123 ft (> 6561 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	