

SG 3000HV

Turnkey Container Station



Cost effective

- Turnkey solution with multiple inverter units & aux. power supply & system monitoring
- integrated 10ft shipping container, easy transportation
- 8m² area for easy civil work, fast deployment



Secured yield

- Max.system efficiency up to 99%
- Max 2 MPP trackers, wide MPP voltage range
- Up to 50°C without derating
- DC current monitoring for fast fault detection
- 1 inverter unit fails, another unit maintain safety operation for max generation



User Friendly

- Compatible with various power grid code
- Anti-PID function optional
- Robust container for extreme ambient conditions
- Easy maintenance from front side
- Certificate: TÜV, CSA, etc.

Input Side Data(DC)

SG3000HV

Max. input voltage	1500V
Start voltage	940V
Min. working voltage	900V
Max. input current	3508A
MPPT voltage range	900 ~ 1300V
No. of MPPTs	1 or 2

Output Side Data(AC)

Nominal AC output power	3000kW
Max. AC output apparent power	3000kVA
Max. inverter output current	2886A
Rated grid voltage	600V
Grid voltage range	540 ~ 660V
Nominal grid frequency	50 / 60Hz
Grid frequency range	47 ~ 52Hz / 57~63Hz
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	98.5%

Mechanical Data

Dimensions(W*H*D)	2991*2591*2438 mm
Weight	5700Kg

General Data

Operating temperature range	-35 ~ 60°C (>50°C derating)
Auxiliary power supply	230Vac, 2kVA / Optional: 400Vac, up to 15kVA
Cooling concept	Temp.controlled air-forced cooling
Protection Class	IP54
Max. relative humidity	0~95%, non-condensing
Max. altitude	6000m (>3000m derating)
Communication port	Standard: RS485, Ethernet; Optional: Optical fiber

Protections & Functions

Anti PID Functions	Optional
Grid Support Functions	LVRT, HVRT, ZVRT, Anti-Islanding, Active & reactive power regulation, PF control, Soft start/stop
DC Input protection	Circuit breaker/optional: Loadswitch+fuse
AC Output protection	Circuit breaker
DC overvoltage protection	Type 2
Grid monitoring	Yes
Ground fault monitoring	Yes
Overheat protection	Yes
Insulation monitoring	Yes

Circuit Diagram

