

SG2000TS-MV



High Integration

- All in one package, turnkey solution



Easy cabling & maintenance

- Front-side maintenance
- Slide-Swap IGBT Power Modules
- Wide space for cable connection



High adaptability & Flexibility

- Wide temperature range: -30 - 60°C (up to 55°C without derating)
- Full load until 2000m
- DC inputs can be either each with DC circuit breaker or DC load break switch+fuses, max. 14 inputs, no DC recombiners needed



High power yield

- Max. efficiency 98.8%
- 2 MPP Trackers
- Wide MPPT range

DC

Maximum Voc	1000V
Start-Up Voltage	545V
DC MPPT Range	570V~850V
Maximum DC Input Current	2*2000A
Array Configuration	Negative Grounding (Standard) Positive Grounding or Floating (Optional)

DC Recombiner Box (X2)

Configuration Option	DC Isolation Switch with Fuse DC Breakers
DC Input Options (Per Recombiner Box)	10~14
DC Input Monitoring	Optional
DC Surge Protection	Standard

AC

Nominal Power	2000kVA (55°C)
Maximum Output Power	2200kVA (50°C)
Optional Output Voltage Range	6.6~35KV
Output Harmonics	<3% THD
Inverter Tare Losses	<100W (Per Inverter)
Frequency Range	50/60Hz 47Hz-63Hz
Power Factor	>0.99
PF Adjusting Range	0.8 Lagging to 0.8 Leading
Power Curtailment	0~100% with 1% Steps

Environmental

Operating Temperature Range	-30°C~60°C (-22°F to 140°F) (Derating Above 55°C)
Storage Temperature Range	-40°C~75°C (-40°F to 167°F)
Altitude	13000ft (4000m), De-rate above 6500ft (2000m)
Ventilation	Forced Air Cooling
Noise	≤70dB
Humidity	Up to 95% Non-Condensing
E-House Option	Dehumidifier
Coastal Package	Fully Enclosed (Excluding MV Transformer) Stainless Steel Enclosure

Communication

Communication Options	HMI with LCD Screen RS485 via Modbus Modbus TCP/IP with RJ45 Copper to Fiber converter SolarInfo Data Logger
Communication Cabinet	Ethernet Switch (Managed) SCADA Protocol Converter

Station Service Power

Station Service Power	5kVA - Basic 15kVA - Tracker
Service Input Voltage	600V - 120 / 208V, 3 Phases 480V - 120 / 208V, 3 Phases

Medium Voltage Transformer

Cooling	Liquid Filled with Biodegradable Oil
Medium Voltage	Up to 35KV
Low Voltage	2*370Vac (Dual Secondary Winding)
Orientation	Y11, Y11-D, Or D11, D11-Yn
Connection	Close Coupling to Inverter High Voltage Load Switch Current Limiting Fuse
MV Switchgear	±2~2.5% Tap Changers

Mechanical

Dimensions (LXWXH)	7m*2.6m*2.5m (275" * 102" * 98")
Weight	15T (33069lbs)
Electronics / IGBT Enclosure	NEMA 4
DC / AC / Magnetics Enclosure	NEMA 3R

Circuit Diagram

