

# SG2000-MV/SG2500-MV

Turnkey Station - MV Pad-mounted Transformer or Separate Transformer + RMU



## Cost Effective

- Integrated inverter, transformer and switchgear
- Lower transportation cost due to 20 feet container
- System efficiency up to 98%



## Reliable

- Proven and intelligent cooling system
- IP54 protection degree suitable for harsh environment condition



## Easy Maintenance

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



## Flexible

- Applied to medium voltage grid from 10KV to 35KV
- Suitable for most environment conditions and local standards
- Integrated optional auxiliary power supply up to 15KVA



Input Side Data(DC)	SG2000-MV	SG2500-MV
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	
<b>Output Side Data(AC)</b>		
MV Output Voltage	10 ~ 35kV	
Nominal AC output power	2000kW	2520kW
Max. AC output apparent power	2200kVA	2800kVA
Max. inverter output current	4032A	4444A
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)	
<b>Efficiency</b>		
Inverter max. efficiency	99.0%	
Inverter Euro. efficiency	98.7%	
System max. efficiency	98.0%	
System Euro. efficiency	97.5%	
<b>Transformer</b>		
Transformer rated power	2000kVA	2500kVA
Transformer Max. power	2200kVA	2800kVA
Input/Output Voltage	0.315kV/10 ~ 35kV	0.360kV/10~ 35kV
<b>Mechanical Data</b>		
Dimensions(W*H*D)	6058*2896*2438 mm 238.5**114.0**96.0"	6058*2896*2438 mm 238.5**114.0**96.0"
Weight	<16.5T 36376.3lb	<17T 37478.6lb
<b>General Data</b>		
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	4000m (>2000m derating) 13123ft (>6561ft derating)	
Communication port	Standard: RS485, Ethernet; Optional: Optical fiber	
<b>Protections &amp; Functions</b>		
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	
Inverter output protection	Circuit breaker	
AC MV output protection	Load switch+fuse	
DC overvoltage protection	Type 2	
Grid monitoring	Yes	
Ground fault monitoring	Yes	
Overheat protection	Yes	
Insulation monitoring	Yes	