

SG125HV NEW

String Inverter for 1500Vdc System



High Power Yield

- Efficient five-level technology, max. efficiency 99 %, CEC efficiency 98.5 %
- DC 1500 V, AC 600 V, lower system loss
- Max. DC/AC ratio more than 1.5



Saved Investment

- The same per watt cost as central inverters
- 5 MW power block design for lower AC transformer and labor cost
- PLC - power line communication optional, save communication cable cost



Easy O&M

- Installed at one place, reducing efforts for maintenance
- Light weight design for handling



Grid Support

- Comply with standards: UL1741, IEEE 1547, IEEE 1547.1 and California Rule 21
- Compatible with SunSpec communication protocol
- Grid support including LVRT, HVRT and FRT



Input Side Data

Max PV input voltage	1500 V
Nominal PV input voltage	860V
MPP voltage range	860 - 1450 V
MPP voltage range for nominal power	860 - 1250 V
No. of MPPTs	1
Max. input current	150 A

Output Side Data

Nominal AC output power	125 kW
Max. AC output power (PF=1)	125 kW
Max. AC output apparent power	125 kVA
Max. AC output current	120 A
Nominal AC voltage	3P + PE, 600 Vac
AC voltage range	480 - 690 Vac
Nominal grid frequency	50 Hz / 60 Hz
Grid frequency range	45 - 55 Hz / 55 - 65 Hz
THD	< 3 % (Nominal power)
DC current injection	<0.5 % In
Power factor	>0.99@default value at nominal power,(adj. 0.8 leading - 0.8 lagging)

Protection

Anti-islanding protection	Yes
LVRT/HVRT	Yes
DC reverse connection protection	Yes
AC short circuit protection	Yes
Leakage current protection	Yes
DC switch	Yes
AC switch	Yes
DC fuse	Yes
DC Overvoltage protection	Type II
AC Overvoltage protection	Type II

System Data

Max. efficiency	99.00 %	Mechanical Data	Dimensions(W*H*D)	690*770*300 mm
CEC efficiency	98.50 %			27.2**30.3**11.8"
Isolation method	Transformerless		Mounting method	Wall bracket
Ingress protection rating	NEMA 4X		Weight	65 kg 143 lb
Night power consumption	<2 W			
Operating ambient temperature range	-25 to 60°C (> 50 °C derating)			-13 °F to 140 °F (> 122 °F derating)
Allowable relative humidity range	0 - 100 %			
Cooling method	Smart forced air cooling			
Max. operating altitude	4000 m (> 3000m derating)			13123 ft (> 9843 ft derating)
Display	LED, Bluetooth+APP			
Communication	RS485 / PLC (optional)			
DC connection type	Screw Terminal (Max. 250Kcmil, Cu or Al)			
AC connection type	Screw Terminal (Max. 250Kcmil, Cu or Al)			
Certification	UL1741, IEEE 1547, IEEE1547.1, CSA C22.2 107.1-01-2001, FCC Part 15 Sub-part B Class A Limits, UL 1998 and California Rule 21			

Efficiency Curve

