

SG125HV NEW

String Inverter for 1500Vdc System



High Power Yield

- Efficient five-level technology, max. efficiency 98.8 %, Euro. efficiency 98.5 %, CEC efficiency 98.5 %
- Max. DC/AC ratio more than 1.5



Saved Investment

- DC 1500 V, AC 600 V, lower system loss
- 5 MW power block design for lower AC transformer and labor 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	1050V
MPP voltage range	860 - 1450 V
MPP voltage range for nominal power	860 - 1250 V
No. of MPPTs	1
Max. input current	148A

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	3 / 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	No
DC Overvoltage protection	Type II
AC Overvoltage protection	Type II

System Data

Max. efficiency	98.80%
Euro. efficiency	98.50%
CEC efficiency	98.50%
Isolation method	Transformerless
Ingress protection rating	NEMA 4X
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	Bolt terminal (Max. 250Kcmil, Cu or Al)
AC connection type	Bolt terminal (Max. 250Kcmil, Cu or Al)
Certification	UL1741, UL1741 SA, IEEE1547.1, CSA C22.2 107.1-01-2001, FCC Part 15 Sub-part B Class A Limits and California Rule 21

Mechanical Data

Dimensions(W*H*D)	670*810*294mm 26.4**31.9**11.6"
Mounting method	Wall bracket
Weight	68kg 150lb

Efficiency Curve

