SG125HV
String Inverter for 1500 Vdc System

CIRCUIT DIAGRAM

- Patented five-level topology, max. efficiency 98.9%, European efficiency 98.7%, CEC efficiency 98.5%
- Full power operation without derating at 50 °C
- Patented anti-PID function

EASY O&M
- Virtual central solution, easy for O&M
- Compact design and light weight for easy installation

GRID SUPPORT
- Compliance with both IEC and UL safety, EMC and grid support regulations
- Low/High voltage ride through (L/HVRT)
- Active & reactive power control and power ramp rate control

EFFICIENCY CURVE

- Efficiency
  - Max. efficiency / European efficiency: 98.9% / 98.1%
  - CEC efficiency: 98.5%
- Protection
  - DC reverse connection protection: Yes
  - AC short-circuit protection: Yes
  - Leakage current protection: Yes
  - Grid monitoring: Yes
  - DC switch: Yes
  - AC switch: Yes
  - Q at night function: optional
  - Anti-PID function: Yes
  - Overvoltage protection: DC Type II / AC Type II

General Data
- Dimensions (W*H*D): 670*902*296 mm (26.4”*35.5”*11.7”)
- Weight: 76 kg (167.5 lb)
- Isolation method: Transformerless
- Degree of protection: IP 65 NEMA 4X
- Night power consumption: ≤ 4 W
- Operating ambient temperature range: -25 to 60 °C (>-50 °C derating) / -33 to 140 °F (>-70 °F derating)
- Allowable relative humidity range (non-condensing): 0~100%
- Cooling method: Smart forced air cooling
- Max. operating altitude: 4000 m (3000 m derating) / 11524 ft (9843 ft derating)
- Display / Communication: LED, Bluetooth+APP / RS485
- DC connection type: OT or DT (Max. 185 mm² 350 Kcmil)
- AC connection type: OT or DT (Max. 185 mm² 350 Kcmil)
- Compliance

Q at night function (optional), LVRT, HVRT, ZVRT, active & reactive power regulation, PF control, soft start/stop

Type designation
- SG125HV-20

- Efficiency
  - Vdc=860 V: 90%
  - Vdc=1050 V: 94%
  - Vdc=1250 V: 96%

SAVED INVESTMENT
- DC 1500V/AC 600V, low system initial investment
- 1 to 5MW power block design for lower AC transformer and labor cost
- Max.DC/AC ratio up to 1.5

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