

SG33KTL-M

String Inverter



High Power Yield

- Max. efficiency 98.9%
- Max. DC/AC ratio up to 1.3
- Long-term overload at 1.1Pn
- Up to 3 MPP Trackers



Flexible

- Wireless power line communication
- Only 39kg for easy installation



Intelligent Design

- Integrated string monitoring function
- Integrated DC fuses and DC/AC surge protection



Qualified

- TÜV, CE, G59/3, BDEW



Input Data

Max. PV input voltage	1000V
Startup voltage	250V
Nominal input voltage	585V
MPP voltage range	200~950V
MPP voltage range for nominal power	500~800V
No. of MPPTs	3
Max. number of PV strings per MPPT	2 / 3 / 3
Max. PV input current	82 (22A/30A/30A)
Max. current for input connector	12A

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Output Data

Nominal AC output power	33000W
Max AC output power (PF=1)	36000W
Max. AC output apparent power	36000VA
Max. AC output current	52A
Nominal AC voltage	3/N/PE 400Vac
AC voltage range	352~440Vac
Nominal grid frequency	50Hz/60Hz
Grid frequency range	45~55Hz/55~ 65Hz
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	Yes
DC reverse connection protection	Yes
AC short circuit protection	Yes
Leakage current protection	Yes
DC switch	Yes
DC fuse	Yes
PV string monitoring	Yes
Overvoltage protection	DC Type II DIN rail surge arrester (40KA)/AC Type II

System Data

Max. efficiency	98.90%
Euro. efficiency	98.50%
Isolation method	Transformerless
Ingress protection rating	IP65
Night power consumption	<1W
Operating ambient temperature range	-25~60°C (>50°C derating)
Allowable relative humidity range	0~100%
Cooling method	Smart forced air cooling
Max. operating altitude	4000m (>3000m derating)
Display	Graphic LCD
Communication	RS485/PLC
DC connection type	MC4
AC connection type	Screw Clamp terminal

Mechanical Data

Dimensions (W*H*D)	500*700*240mm
Mounting method	Wall bracket
Weight	39kg

Efficiency Curve

