

SG36KTL-M

String Inverter



Secured Yield

- Max. efficiency 98.5 %
- Max. DC/AC ratio up to 1.3
- Up to 3 MPP Trackers



Flexible

- Power line communication optional
- Only 48 kg for easy installation



Intelligent Design

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



Reliable

- TÜV, CE, G59/3, BDEW



Input (DC)

Max. PV input voltage	1100 V
Startup voltage	200 V
Nominal input voltage	585 V
MPP voltage range	200 - 1000 V
MPP voltage range for nominal power	500 - 850 V
No. of MPPTs	3
Max. number of PV strings per MPPT	3 / 3 / 2
Max. PV input current	88 A (33 A / 33 A / 22 A)
Max. current for input connector	12 A

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Output (AC)

Nominal AC output power	36000 W
Max AC output power (PF=1)	36000 W
Max. AC output apparent power	36000 VA
Max. AC output current	53.5 A
Nominal AC voltage	3 / N / PE or 3 / PE, 230 / 400 V
AC voltage range	310 - 480 V
Nominal grid frequency	50 Hz / 60 Hz
Grid frequency range	45 - 55 Hz / 55 - 65 Hz
THD	< 3 % (at nominal power)
DC current injection	< 0.5 % In
Power factor	> 0.99 @default value at nominal power, (adj. 0.8 leading - 0.8 lagging)

Protections & Functions

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	DC positive fuses (15A)
PV string current monitoring	Yes
Overvoltage protection	DC Type II DIN rail surge arrester (40 kA) / AC Type II

System Data

Max. efficiency	98.50 %
Euro. efficiency	98.30 %
Isolation method	Transformerless
Ingress protection rating	IP65
Night power consumption	< 2 W
Operating ambient temperature range	-25 to 60 °C (> 50 °C derating)
Allowable relative humidity range	0 - 100 %
Cooling method	Smart forced air cooling
Max. operating altitude	4000 m (> 3000 m derating)
Display	Graphic LCD
Communication	RS485 / PLC (optional)
DC connection type	MC4 (Max. 6mm ²)
AC connection type	Screw clamp terminal (Max. 50mm ²)

Mechanical Data

Dimensions (W*H*D)	525*740*240 mm
Mounting method	Wall bracket
Weight	48 kg

Efficiency Curve

