



SG 36KTL-M

Flexible

- Specifically designed with 480Vac output for large scale PV plants
- Easy to handle without lift machinery assistance, lower the cost of installation and maintenance.
- Integrated DC fuse and DC type 2 SPD lightning protection
- DC switch, safe and convenient for maintenance
- Dual MPPT

Efficient

- Max. Efficiency at 98.3%
- Wide DC input voltage range, max. 1000V

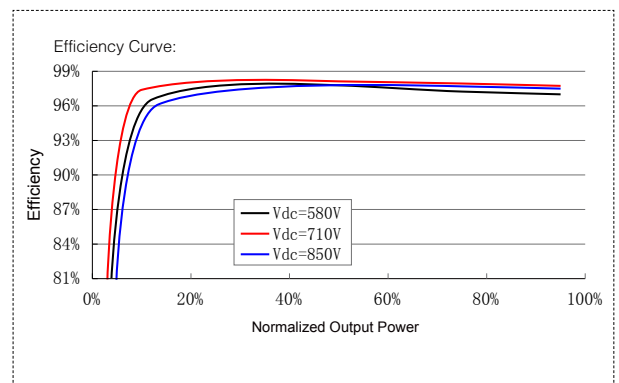
Grid-friendly

- Active power continuously adjustable (0~100%)
- Reactive power control with power factor 0.8 overexcited
~0.8 underexcited

Qualified

- TÜV, CE, G59/2, VDE AR N 4105, BDEW certification

Efficiency Curve



Technical Specifications:

SG 36KTL-M	
Input Side Data	
Max. PV input power	38000W
Max. PV input voltage	1000V
Startup voltage	300V
Nominal input voltage	710V
MPP voltage range	280~950V
MPP Voltage range for nominal power	560~800V
No. of MPPTs	2
Max. number of PV strings per MPPT	4
Max. PV input current	66A (33A/33A)
Max. current for input connector	10A
Short-circuit current of PV input	80A (40A/40A)
Output Side Data	
Nominal AC output power	36000W
Max. AC output apparent power	39800VA
Max. AC output current	48A
Nominal AC voltage	480Vac phase to phase
AC voltage range	422~528Vac (May vary as per corresponding country's grid standard)
Nominal grid frequency	50Hz
Grid frequency range	45~55Hz (May vary as per corresponding country's grid standard)
THD	<3% (Nominal power)
DC current injection	<0.5%In
Power factor	>0.99@default value at nominal power, (adj. 0.8 overexited ~0.8 underexited)
Protection	
Anti-islanding protection	Yes
LVRT	Yes
DC reverse connection protection	Yes
AC short circuit protection	Yes
Leakage current protection	Yes
DC switch	Integrated
DC fuse	Integrated
Overvoltage protection	Type II DIN rail surge arrester
System Data	
Max. efficienc	98.3%
Max. European efficiency	98.0%
Isolation method	Transformerless
Ingress protection rating	IP65 (Fan IP55)
Night power consumption	<1W
Operating ambient temperature range	-25~60°C (> 45°C derating)
Allowable relative humidity range	0~95% non-condensation
Cooling method	Smart forced air cooling
Max. operating altitude	4000m (> 2000m derating)
Display	Graphic LCD
Communication	RS485
DC connection type	MC4
AC connection type	Screw Type Terminal (Max.16mm2)
Certification	VDE0126-1-1, EN62109-1,EN62109-2, G59/2, VDE-AR-N-4105, BDEW
Mechanical Data	
Dimensions (W x H x D)	634x820x257mm
Mounting method	Wall bracket
Weight	65kg

* the DC possible input power is reduced at the voltages lower than 560V due to the input current limit;

