



## SG 30KTL-M

### Flexible

- 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

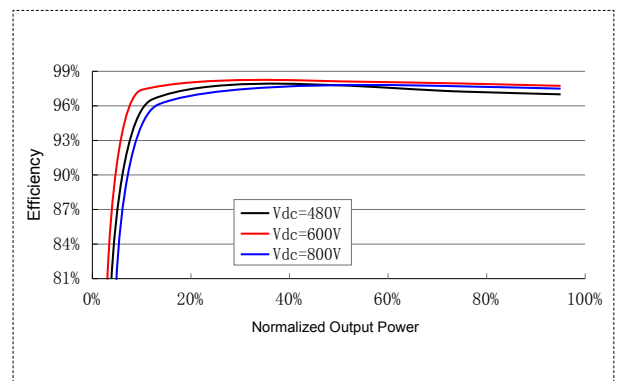
### Grid-friendly

- Active power continuously adjustable (0~100%)
- Reactive power control with power factor 0.9 overexcited ~0.9 underexcited

### Qualified

- TÜV, CE, DK5940, G59/2, AS4777, BDEW, VDE AR N 4105, CGC certification, compliance with Italian medium voltage grid requirement

### Efficiency Curve



## Technical Specifications:

### SG 30KTL-M

#### Input Side Data

Max. PV input power	32000W
Max. PV input voltage	1000V
Startup voltage	300V
Nominal input voltage	650V
MPP voltage range	280~950V
MPP voltage range for nominal power	480~800V
No. of MPPTs	2
Max. number of PV strings per MPPT	5
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	30000W
Max. AC output apparent power	33120VA
Max. AC output current	48A
Nominal AC voltage	3/N/PE, 230/400Vac
AC voltage range	310~480Vac (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. 0.9 overexited ~0.9 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	Spring Clamp termina
Certification	VDE0126-1-1, EN62109-1, EN62109-2, G59/2, CEI-021, AS/NZS 3100, AS4777.2, AS4777.3, VDE-AR-N-4105, BDEW, CGC certification

#### Mechanical Data

Dimensions (W x H x D)	634 x 820 x 257mm
Mounting method	Wall bracket
Weight	65kg

## Circuit Diagram:

