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 overexited ~0.8 underexited

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

Efficiency Curve

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### Technical Specifications:

#### Input Side Data
- **Max. PV input power**: 38000W
- **Max. PV input voltage**: 1000V
- **Startup voltage**: 710V
- **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 overexcited ~0.8 underexcited)

#### 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
- **Oversoltage protection**: Type II DIN rail surge arrester

#### System Data
- **Max. efficiency**: 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)**: 634 x 820 x 257mm
- **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;