



SG IOKTL

Grid-friendly

- Active power continuously adjustable (0~100%)
- Reactive power control with power factor from 0.9 overexcited to 0.9 underexcited
- Meet EEG2012 power management

Efficient

- Max. Efficiency at 98%
- Film capacitor, increase system reliability
- Wide DC input voltage range, max. 1000V

Flexible

- Flexible setting single or dual MPPT
- DC switch, safe and convenient for maintenance

Qualified

- TÜV, CE, Enel-GUIDA, CGC, VDE AR N 4105 certified, compliance with BDEW

Input Side Data

Max. PV input power	10800W (5400W/5400W)
Max. PV input voltage	1000V
Startup voltage	270V
Nominal input voltage	650V
MPP voltage range	250~950V
MPP voltage range for nominal power	250~800V
Number of MPPTs	2
Max. number of PV strings per MPPT	3/3
Max. PV input current	40A (20A/20A)
Max. current for input connector	10A
Short-circuit current of PV input	50A (25A/25A)

Output Side Data

Nominal AC output power	10000W
Max. AC output apparent power	11100VA
Max. AC output current	17A
Nominal AC voltage	3/N/PE, 230/400Vac
AC voltage range	310~480Vac
Nominal grid frequency	50Hz
Grid frequency range	45~55Hz
THD	<3% (nominal power)
DC current injection	<0.5%In
Power factor	>0.99@default value at nominal power, (adj. 0.9 overexcited ~0.9 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	No
Overvoltage protection	Varistors

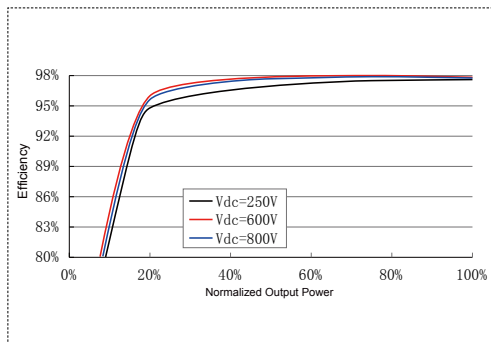
System Data

Max. efficiency	98.0%
Max. European efficiency	97.2%
Isolation method	Transformerless
Ingress protection rating	IP65 (fan IP54)
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 interface	RS485 (RJ45 connector)
DC connection type	MC4
AC connection type	Plug and play connector (Amphenol C16_L)
Certification	EN62109-1, EN62109-2, EN61000-6-2, EN61000-6-3, VDE0126-1-1, CEI-021, C10/C11, EN50160, RD1669, IEC61727, UTE C 15-712-1, EN50438, AS/NZS3100, AS4777.2, AS4777.3, G59/2, VDE-AR-N-4105, BDEW, CGC

Mechanical Data

Dimensions (W x H x D)	648x686x246mm
Mounting method	Wall bracket
Weight	50kg

Efficiency Curve



Circuit Diagram

