



SG 20KTL

Grid-friendly

- LVRT
- Active power continuously adjustable (0~100%)
- Reactive power control with power factor from 0.9 lagging to 0.9 leading

Efficient

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

Flexible

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

Qualified

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

Input (DC)

Max. DC power (@ $\cos \phi = 1$)	21000W
Max. Input voltage	1000V
Min. Input voltage	280V
MPPT voltage range	480V~800V
Number of MPPT	2
Strings per MPPT input	3
Max. Input current input A / input B	21A/21A
Max. Input current per string input A / B	10A / 10A

Output (AC)

Rated power	20000W
Max. Output current	33A
Rated grid voltage	400Vac
Grid voltage range	310~450Vac
Rated grid frequency	50Hz
Grid frequency range	47~51.5Hz
Power factor at rated power	1
Adjustable displacement factor	0.9 (lagging) ~0.9 (leading)
Output Current THD	<3% (at nominal power)
DC Current Injection	< 0.5% (at nominal output current)
Isolation Transformer	No

Efficiency

Max. Efficiency	98%
European Efficiency	97.3%

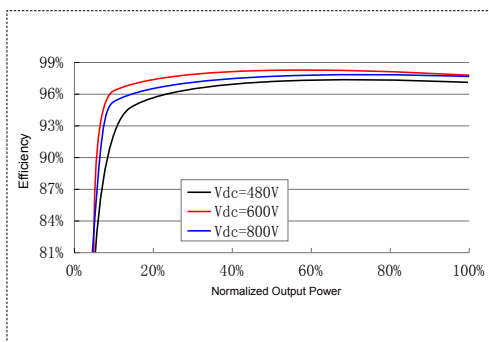
Protection

Ground fault monitoring	Yes
Grid monitoring	Yes
DC reverse-polarity protection	Yes
AC short-circuit current capability	Yes
DC switch	Yes

General Data

Dimensions (W/H/D)	648mm/695mm/232mm
Weight	55Kg
Operating temperature range	-25~+60°C
Noise emission (typical)	<52dB
Self-consumption at night	<1W
Cooling concept	Controlled forced ventilation
Degree of protection	IP65
Max. permissible value for relative humidity (non-condensing)	0~95%, non -condensing
Max. altitude	4000m (derating > 2000m)
DC terminal	MC4 terminal
AC terminal	Wieland terminal
Display	LCD
Communication	RS485

Efficiency Curve



Circuit Diagram:

