



SG 30K3

Grid-friendly

- Active power continuously adjustable (0~100%)
Reactive power control with power factor from 0.9 lagging to
- 0.9 leading
Low-voltage PV system, standard 0.4kV output voltage

Efficient

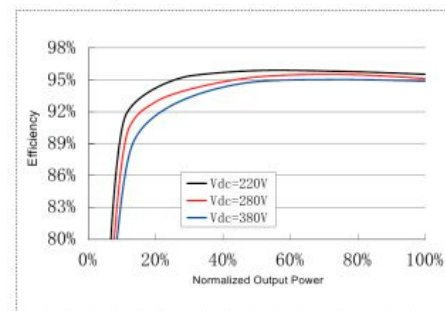
- High efficiency isolation transformer
- Non-consumption at night

Qualified

- CE, Enel-GUIDA certification

Input (DC)	
Max. DC power (@ $\cos \phi = 1$)	34.5kW
Max. Input voltage	450V
Start voltage	240V
MPPT voltage range	220~380V
Number of DC inputs	1
Number of DC outputs	1
Output (AC)	
Rated power	30kW
Max. Output AC power	33kVA
Max. Output current	47A
Max. THD	<3%(at nominal power)
Rated grid voltage	400V
Grid voltage range	310~450V
Rated grid frequency	50/60Hz
Grid frequency range	47~52Hz/57~62Hz
Power factor at rated power	>0.99
Isolation Transformer	Yes
DC current injection	<0.5% (at nominal output current)
Adjustable displacement factor	0.9 (lagging) ~0.9 (leading)
Efficiency	
Max. Efficiency	95.6%
European Efficiency	94.6%
Protection	
Input side disconnection device	Breaker
Output side disconnection device	Breaker
DC overvoltage protection	Yes
AC overvoltage protection	Yes
Grid monitoring	Yes
Ground fault monitoring	Yes
Insulation monitoring	Opt
General Data	
Dimensions (W/H/D)	800x1984x646mm
Weight	620kg
Operating temperature range	-25~+55°C
Self-consumption at night	0W
External auxiliary supply voltage	No
Cooling concept	Temperature controlled air-cooling
Degree of protection	IP20
Max. permissible value for relative humidity (non-condensing)	0~95%, non -condensing
Max. altitude	6000m (derating > 3000m)
Fresh air consumption	700m³/h
Display	LCD
Communication port/protocols	Modbus

Efficiency Curve



Circuit Diagram:

