

20kW
Available in
August 2011

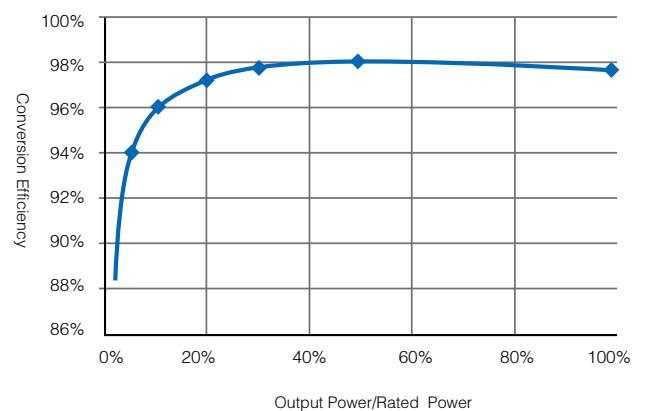


SG 10KTL / SG 12KTL / SG 15KTL/SG 20KTL

Features:

- Reactive Power Control with power factor from 0.9 lagging to 0.9 leading
- German BDEW medium voltage guideline compliant
- Max. efficiency at 98%
- Wide DC input voltage range with max. 1000V
- Double MPP trackers for different installation inclinations
- Embedded DC switch
- Weather-proof design (IP65) for harshest working environment
- Easy-setting multilingual LCD display panel
- Film capacitor increases system reliability
- Water-proof direct plug-in terminals
- TÜV ,Enel-GUIDA, AS4777, G83/1, G59/2, CE certification

Efficiency Curve: (at $V_{dc}=600V$)



Technical Specifications:

	SG 10KTL	SG 12KTL	SG 15KTL	SG 20KTL
DC SIDE DATA				
Max. DC Voltage	1000Vdc	1000Vdc	1000Vdc	1000Vdc
Start Voltage	250V	250V	250V	300V
MPP Voltage	250~800V	330~800V	380~800V	480~800V
Min. DC Voltage	250V	250V	250V	280V
Max. DC Power	10.4kWp	12.5kWp	15.6kWp	22kWp
Max. Input Current	40A (20A*2)	40A (20A*2)	40A (20A*2)	42A (21A*2)
Recommend PV Array Open Circuit Voltage	700V			
Number of MPP Trackers/Strings Per MPP Tracker	2/3			
AC SIDE DATA				
Rated Output Power	10kW	12kW	15kW	20kW
Max. AC Output Current	15A	20A	24A	31A
Rated Grid Voltage	400Vac			
Grid Voltage Range	310~480Vac	310~480Vac	310~480Vac	310~480Vac
Rated Grid Frequency	50Hz/60Hz			
Grid Frequency Range	47~52Hz/57~62Hz			
Output Current THD	<3% (at nominal power)			
DC Current Injection	<0.5% of rated inverter output current			
Power factor (cos φ)	0.9 (lagging) ~0.9 (leading)			
SYSTEM				
Max. Efficiency	98.0%	98.0%	98.0%	98.0%
Euro. Efficiency	97.2%	97.2%	97.3%	97.3%
Protection Degree	IP65 (outdoor)			
Power Consumption at Night	0W			
Operating Temperature	-25~+60°C			
Cooling Method	controlled forced-air cooling			
Relative Humidity	0~95%, non-condensing			
Max. Working Altitude	2000m			
DISPLAY AND COMMUNICATIONS				
Display	LCD			
Standard Comm. Interfaces	R485/Ethernet			
Optional Comm. Interfaces	—			
MECHANICAL DATA				
Dimensions (WxHxD)	648x695x232mm	648x695x232mm	648x695x232mm	648x695x232mm
Net Weight	45kg	51kg	55kg	55kg

