



Sun Access™



SG 100K3



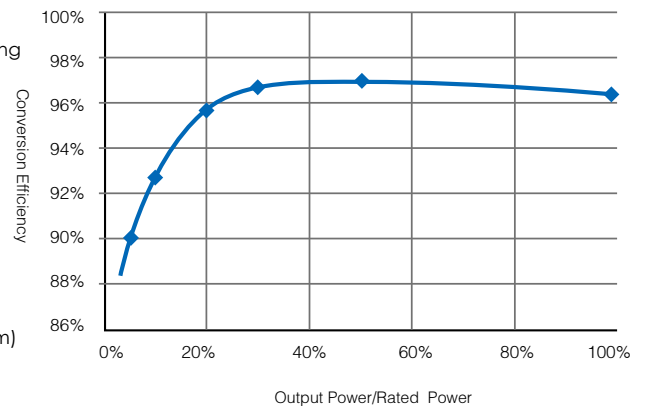
DK5940



Features:

- Power reduction (100%, 60%, 30%, 0%) meet German EEG requirements
- Reactive Power Control with power factor from 0.95 lagging to 0.95 leading
- Max. efficiency at 97.0%
- Using advanced IGBT modules
- Full protective functions
- Easy Installation and maintenance
- Precise output power metering
- Multilingual LCD display
- Auxiliary heater (optional)
- Continuously operating at rated power under +55°C without derating
- Max. working altitude at 6000m (operation with derating above 3000m)
- Low voltage ride through
- KEMA DK5940, TÜV CE certification, CGC certification

Efficiency Curve: (at V_{dc}=450V)





Technical Specifications:

	SG 100K3
DC SIDE DATA	
Max. DC Voltage	900Vdc
Start Voltage	470V
MPP Voltage	450~820V
Min. DC Voltage	450V
Max. DC Power	110kWp
Max. Input Current	250A
AC SIDE DATA	
Rated Output Power	100kW
Max. AC Output Current	158A
Rated Grid Voltage	400Vac
Grid Voltage Range	310~450Vac
Rated Grid Frequency	50Hz/60Hz
Grid Frequency Range	47~51.5Hz/57~61.5Hz
Output Current THD	<3% (at nominal power)
DC Current Injection	<0.5% of rated inverter output current
Power Factor	0.95 (lagging) ~0.95 (leading)
SYSTEM	
Max. Efficiency	97.0% (with transformer)
Euro. Efficiency	96.4% (with transformer)
Protection Degree	IP20 (indoor)
Power Consumption at Night	<30W
Operating Temperature	-25~+55°C
Cooling Method	controlled forced-air cooling
Relative Humidity	0~95%, non-condensing
Max. Working Altitude	6000m (operation with derating above 3000m)
DISPLAY AND COMMUNICATIONS	
Display	LCD
Standard Comm. Interfaces	RS485
Optional Comm. Interfaces	Ethernet
MECHANICAL DATA	
Dimensions (WxHxD)	1020x1964x770mm
Net Weight	925kg



Circuit Diagram:

