



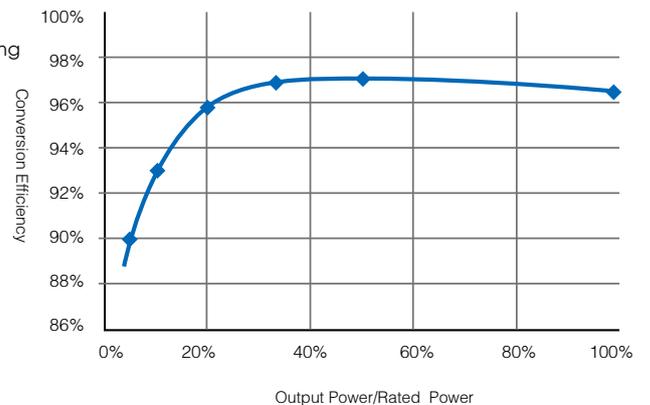
SG 500K3



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
- Low frequency transformer isolation
- Max. efficiency at 97.3%
- Easy Installation and maintenance
- Precise output power metering
- Multilingual touch screen monitoring and control interface
- Suitable for harsh grid environment
- Auxiliary heater (optional)
- Max. working altitude at 6000m (operation with derating above 3000m)
- High quality german brand enclosure
- With low voltage ride through
- CE certification, CGC certification

Efficiency Curve: (at $V_{dc}=500V$)



Technical Specifications:

SG 500K3	
DC SIDE DATA	
Max. DC Voltage	900Vdc
Start Voltage	470V
MPP Voltage	450~820V
Min. DC Voltage	450V
Max. DC Power	550kWp
Max. Input Current	1200A
AC SIDE DATA	
Rated Output Power	500kW
Max. AC Output Current	793A
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	97.3% (with transformer)
Euro. Efficiency	96.7% (with transformer)
Protection Degree	IP20 (indoor)
Power Consumption at Night	<100W
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	touch screen LCD
Standard Comm. Interfaces	RS485
Optional Comm. Interfaces	Ethernet
MECHANICAL DATA	
Dimensions (WxHxD)	2800x2180x850+1800x2180x1200mm
Net Weight	3300kg

Circuit Diagram:

