

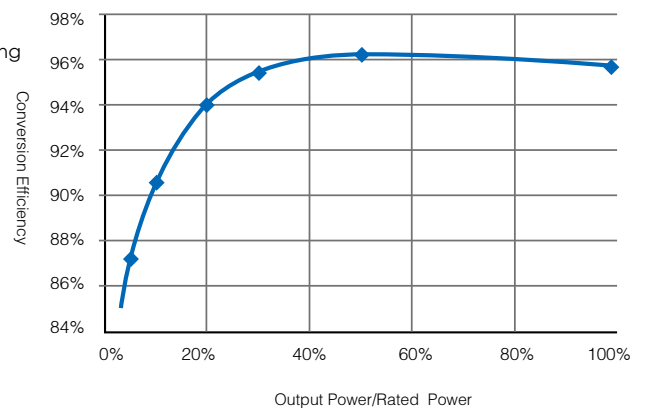


## SG 50K3

### 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
- High Efficiency low frequency isolation transformer
- Intelligent Power Module guarantees high reliability
- Complete protective functions
- Easy-setting multilingual LCD display panel
- High reliability with full protective functions
- Simplified installation&maintenance design
- KEMA DK5940, CE certification, CGC certification

### Efficiency Curve: (at $V_{dc}=300V$ )



## Technical Specifications:

SG 50K3	
<b>DC SIDE DATA</b>	
Max. DC Voltage	900Vdc
MPP Voltage Range	450~820Vdc
Max. DC Power	55kWp
Max. Input Current	130A
Recommend PV Array Open Circuit Voltage	700V
Number of MPP Trackers/Strings Per MPP Tracker	1/1
<b>AC SIDE DATA</b>	
Rated Output Power	50kW
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 )
<b>SYSTEM</b>	
Max. Efficiency	96.3% ( with transformer )
Euro. Efficiency	95.3% ( with transformer )
Protection Degree	IP20 ( indoor )
Power Consumption at Night	20W
Operating Temperature	-25~+55°C
Cooling Method	controlled forced-air cooling
Relative Humidity	0~95%, non-condensing
Max. Working Altitude	2000m
<b>DISPLAY AND COMMUNICATIONS</b>	
Display	LCD
Standard Comm. Interfaces	RS485
Optional Comm. Interfaces	Ethernet/GPRS
<b>MECHANICAL DATA</b>	
Dimensions ( WxHxD )	820x1964x646mm
Net Weight	640kg

## Certificates:



CE DK5940

## Circuit Diagram:

