

PV Grid-Connected Inverter



Profitable

- Improved self-developed innovative inverter technology promises maximum efficiency up to 97% and Euro efficiency of 96.4% with transformer
- shortening pay-back period

Flexible

- Unmatched temperature range -20°C to $+55^{\circ}\text{C}$ to suit for different harsh working environment
- bettering system design

Reliable & Stable

- Only the best quality components are employed to ensure reliable & stable operation & performance
- minimizing maintenance cost

Safe

- Low frequency transformer isolation is equipped to enhance the protection level of the PV system
- CE mark, TÜV, KEMA
- making grid-connection ever easier

Optional

- Data logger
- Combiner box

General Description

Exceptional quality and efficiency at an attractive price: the SunAccess SG100K3 provides a turnkey solution for PV power plants under different conditions. With the improved self-developed inverter and MPPT technology, the peak efficiency of SG100K3 can reach up to 97%. Other than the low frequency transformer isolation, the protection features against reverse polarity, voltage surges and short circuits enhance the system security and further minimize the maintenance work during operation.

No matter where is the site, the SunAccess SG100K3 is the best solution for PV power plants in terms of performance, quality, reliability, stability and safety.

SG100K3

MODEL SG100K3

DC INPUT

Max. DC Voltage	880Vdc
MTTP Range	450~820Vdc
Max. DC Power	110kWp
Max. Input Current	250A
Max. Number of Strings	6

AC OUTPUT

Output Power	100kW
Operating Voltage	400Vac
Nominal Current	145A
Grid Structure	TT, TN-C, TC-S
Operating Frequency	50Hz/60Hz
Voltage Ripple, PV Voltage	< 3%
Current THD	< 3% (at nominal power)
Power Factor	≥0.99 (at nominal power)

SYSTEM

Max. Efficiency	97%
Euro Efficiency	96.4%
Protection Degree	IP20 (indoor)
Operating Temp.	-20~+55°C
Ventilation Method	controlled forced-air cooling
Humidity	0~95%, non-condensing
Display	LCD
Comm. Interfaces	RS485 optional Ethernet/GPRS
Self-Consumption in Operation	<1% of Pnom
Standby Power Consumption	<30W
External Auxiliary Voltage	230V, 50Hz/60Hz
Ground Fault Monitoring	Yes
Emergency Stop	Yes
Power Switch AC Side	Yes
Power Switch DC Side	Yes
Fresh Air Consumption	1620m ³ /h

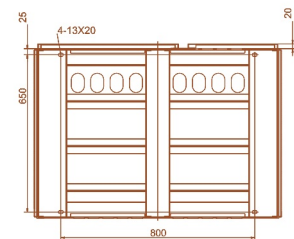
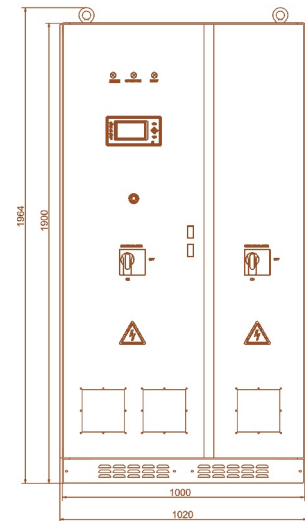
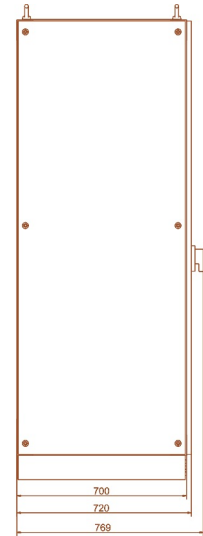
MECHANICAL DATA

W H D	1020 1964 770 (mm)
Weight	900kg

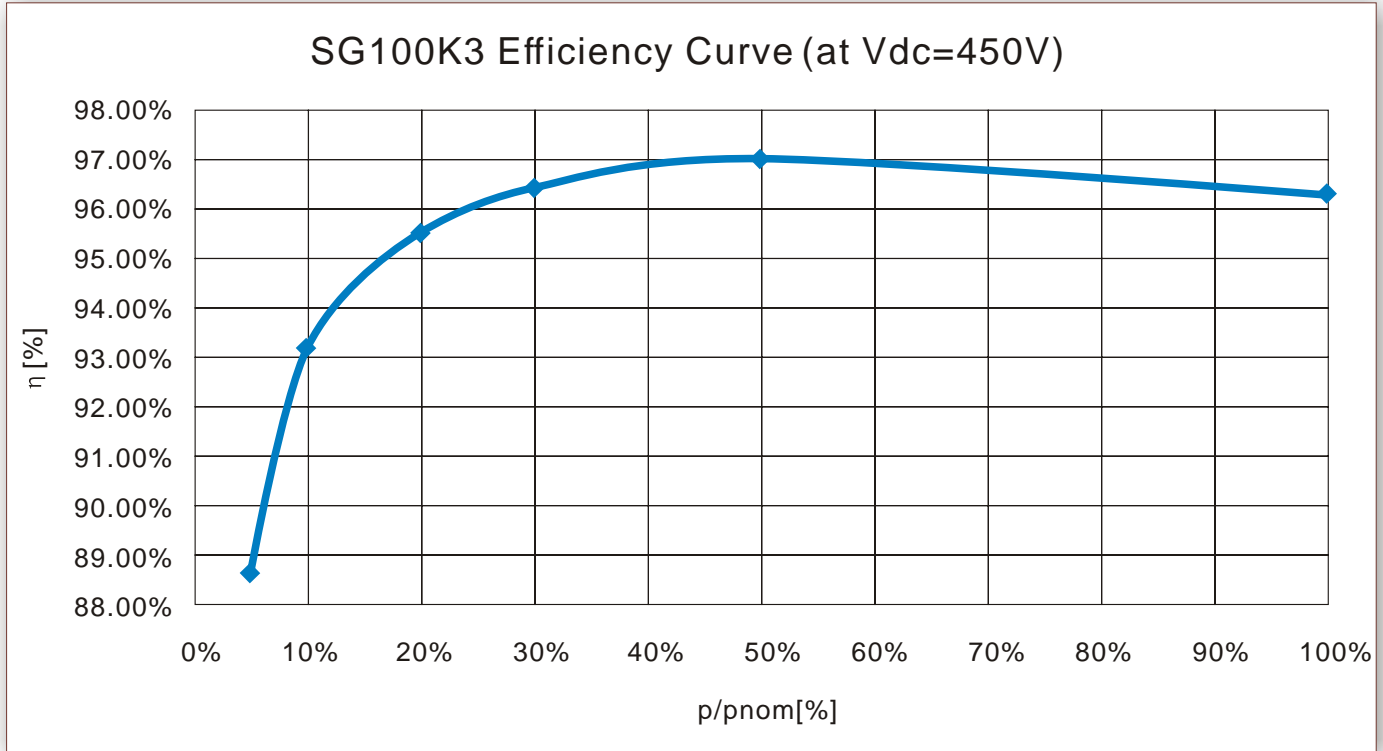
STANDARDS

EMC	EN61000-6-2, EN61000-6-4
Safety	EN50178, IEC62109
CE Conformity	Yes
Others	RD1663/2000, DK5940

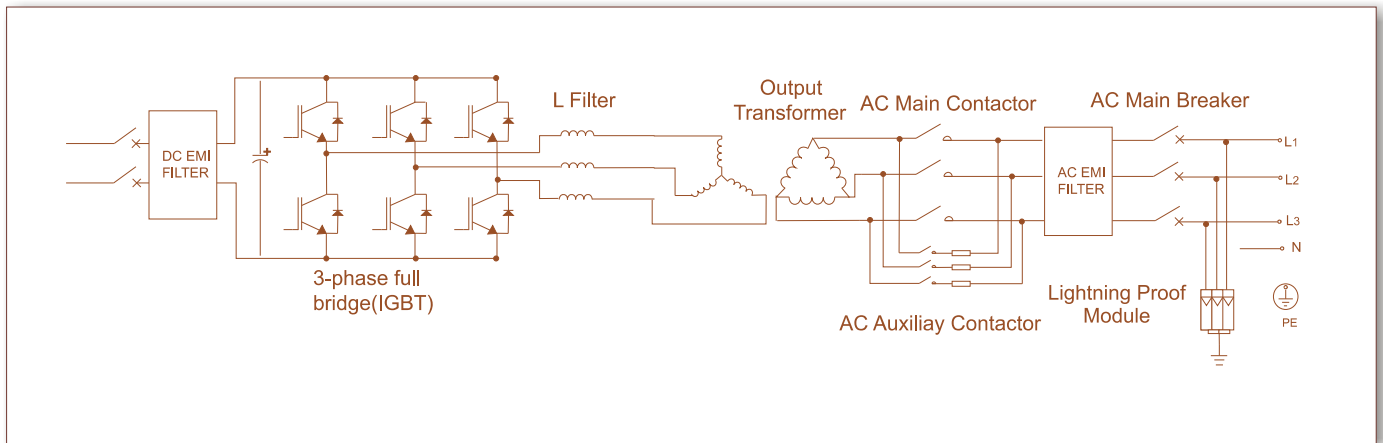
Physical Dimensions



SG100K3



Circuit Diagram



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