



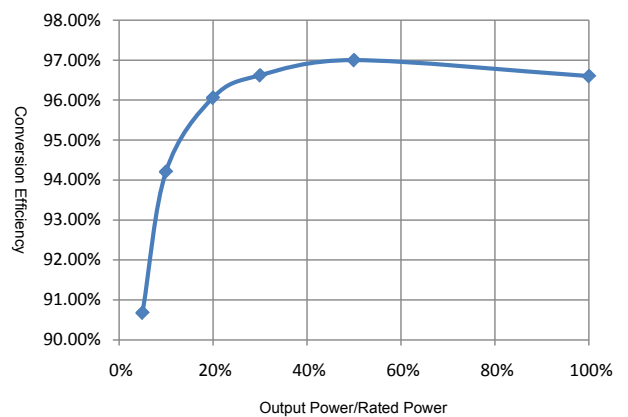
SG 100KLV For Thin Film Cells



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
- Specially-designed for low voltage amorphous PV modules
- Low frequency transformer isolation supporting negative pole earthing
- Directly grid-connected to 400V power grid (end-user demand side)
- Suitable for high altitude and cold regions
- Max. efficiency at 96.8%
- Easy Installation and maintenance
- Multilingual LCD display & multiple communication interfaces available
- Auxiliary heater (optional)
- Low voltage ride through
- CE certification, CGC certification

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



Technical Specifications:

SG 100KLV	
DC SIDE DATA	
Max. DC Voltage	650Vdc
Start Voltage	320V
MPP Voltage	300~650V
Min. DC Voltage	300V
Max. DC Power	110kWp
Max. Input Current	360A
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	96.8% (with transformer)
Euro. Efficiency	96.2% (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	916kg

Circuit Diagram:

