



SG 100KC-Outdoor

Efficient

- CEC weighted efficiency at 96.5%
- Precise output power metering

Adaptable

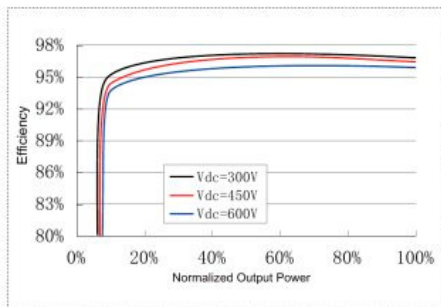
- Auxiliary heater (Optional)
- Compact design, easy installation and transportation

Qualified

- UL1547, IEEE1547, C22.2 107.1-01

Input (DC)		
Max. DC power (@ $\cos \phi = 1$)	114kW	
Max. Input voltage	600V	
Start voltage	300V	
MPPT voltage range	300~600V	
Number of DC inputs	4	
Output (AC)		
Rated power	100kW	
Max. Output AC power	110kVA	
Max. Output current	105.8A	
Max. THD	<3%(at nominal power)	
Rated grid voltage	600Vac	
Grid voltage range	528~660Vac	
Rated grid frequency	60Hz	
Grid frequency range	59.3~60.5Hz	
Power factor at rated power	>0.99	
Isolation Transformer	Yes	
DC current injection	<0.5% of rated inverter output current	
Adjustable displacement factor	0.9 (lagging) ~0.9 (leading)	
Efficiency		
Max. Efficiency	97.2%	
European Efficiency	96.5%	
CEC Efficiency	96.5%	
Protection		
Input side disconnection device	Yes	
Output side disconnection device	Yes	
DC overvoltage protection	Yes	
AC overvoltage protection	Yes	
Grid monitoring	Yes	
Ground fault monitoring	Yes	
General Data		
Dimensions (W/H/D)	1095x1903x892mm	43x75x35 inch
Weight	1050kg	2315 lbs
Operating temperature range	-25~+55°C	-13~+131°F
Noise emission (typical)	<65dB	
Self-consumption at night	<30W	
External auxiliary supply voltage	NO	
Cooling concept	controlled forced-air cooling	
Degree of protection	NEMA 3R	
Max. permissible value for relative humidity (non-condensing)	0~95%, non-condensing	
Max. altitude	6000m (derating > 2000m)	
Fresh air consumption	1620m³/h	
Display	LCD	
Communication protocols	Modbus	
Comm. Interface	RS485 Ethernet (optional)	

Efficiency Curve



Circuit Diagram:

