

## Technical Specifications

## SUN- 3.6 / 5 / 6 K-G

Model	SUN-3.6K-G	SUN-5K-G	SUN-6K-G
<b>Input Side</b>			
Max. DC Input Power (kW)	4.68	6.5	6.6
Max. DC Input Voltage (V)		500	
Start-up DC Input Voltage (V)		80	
MPPT Operating Range (V)		70~500	
Max. DC Input Current (A)	12.5+12.5	12.5+12.5	12.5+12.5
Number of MPPT / Strings per MPPT	2 / 1	2 / 1	2 / 1
<b>Output Side</b>			
Rated Output Power (kW)	3.6	5	6
Max. Active Power (kW)	4	5.5	6.6
Rated AC Grid Voltage (V)		230	
AC Grid Voltage Range (V)		180~300	
Rated Grid Frequency (Hz)		50 / 60 (Optional)	
Operating Phase		Single phase	
Rated AC Grid Output Current (A)	16	22	26
Max. AC Output Current (A)	18	24	29
Output Power Factor		0.8 leading to 0.8 lagging	
Grid Current THD		<3%	
DC Injection Current (mA)		<0.5%	
Grid Frequency Range		47~52 or 57~62 (Optional)	
<b>Efficiency</b>			
Max. Efficiency	97.3%	97.5%	97.5%
Euro Efficiency	97.1%	97.3%	97.3%
MPPT Efficiency		>99%	
<b>Protection</b>			
DC Reverse-Polarity Protection		Yes	
AC Short Circuit Protection		Yes	
AC Output Overcurrent Protection		Yes	
Output Overvoltage Protection		Yes	
Insulation Resistance Protection		Yes	
Ground Fault Monitoring		Yes	
Islanding Protection		Yes	
Temperature Protection		Yes	
Integrated DC Switch		Yes	
Surge protection		DC Type II / AC Type II	
<b>General Data</b>			
Size (mm)		330W×310H×172D	
Weight (kg)		11	
Topology		Transformerless	
Internal Consumption		<1W (Night)	
Running Temperature		-25~60°C	
Ingress Protection		IP65	
Noise Emission (Typical)		<30 dB	
Cooling Concept		Natural cooling	
Max. Operating Altitude Without Derating		2000m	
Designed Lifetime		>20 years	
Grid Connection Standard		EN50549, IEC61727	
Operating Surroundings Humidity		0-100%	
Safety EMC / Standard		IEC62109-1/-2, EN61000-6-1, EN61000-6-3	
<b>Features</b>			
DC Connection		MC-4 mateable	
AC Connection		IP65 rated plug	
Display		LCD1602	
Interface		RS485 / RS232	

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