

# Single Phase String Inverter

## SUN- 1.5 / 2 / 3 K-G



1 MPP tracker, Max. efficiency up to 97.5%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)



Low start-up voltage of 80V

Model	SUN-1.5K-G	SUN-2K-G	SUN-3K-G03
<b>Input Side</b>			
Max. DC Input Power (kW)	2	2.6	3.6
Max. DC Input Voltage (V)	550		
Start-up DC Input Voltage (V)	80		
MPPT Operating Range (V)	70~550		
Max. DC Input Current (A)	13		
Max. Short Circuit Current (A)	19.5		
Number of MPPT / Strings per MPPT	1 / 1		
<b>Output Side</b>			
Rated Output Power (kW)	1.5	2	3
Max. Active Power (kW)	1.7	2.2	3.3
Rated AC Grid Voltage (V)	220 / 230 (Optional)		
AC Grid Voltage Range (V)	160 Vac~300 Vac (this may vary with grid standards)		
Rated Grid Frequency (Hz)	50 / 60 (Optional)		
Operating Phase	Single phase		
Rated AC Grid Output Current (A)	6.5	8.7	13.1
Max. AC Output Current (A)	7.2	9.6	14
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%	97.3%	97.5%
Euro Efficiency	97.1%	97.1%	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		
Anti-islanding Protection	Yes		
Temperature Protection	Yes		
Integrated DC Switch	Yes		
Remote software upload	Yes		
Remote change of operating parameters	Yes		
Surge protection	DC Type II / AC Type II		
<b>General Data</b>			
Size (mm)	330Wx310Hx115D		
Weight (kg)	6		
Topology	Transformerless		
Internal Consumption	<1W (Night)		
Running Temperature	-25~65°C		
Ingress Protection	IP65		
Noise Emission (Typical)	<25 dB		
Cooling Concept	Natural cooling		
Max. Operating Altitude Without Derating	2000m		
Designed Lifetime	>20 years		
Grid Connection Standard	EN50549-1, IEC61727, IEC62116, IEC60068, IEC61683, VDE 0126-1-1, ABNT NBR 16149, ABNT NBR 16150, RD1699, UNE 206006 IN, UNE 206007-1 IN, UNE 217001 IN		
Operating Surroundings Humidity	0-100%		
Safety EMC / Standard	IEC62109-1/-2, IEC61000-6-1, IEC61000-6-3, IEC61000-3-2, IEC61000-3-3		
<b>Features</b>			
DC Connection	MC-4 mateable		
AC Connection	IP65 rated plug		
Display	LCD1602		
Interface	RS485/RS232/Wifi/LAN		