

# Single Phase String Inverter

## SUN-10K-G



2 MPP tracker, Max. efficiency up to 97.7%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)

Model		SUN-10K-G	
<b>Input Side</b>			
Max. DC Input Power (kW)		13	
Max. DC Input Voltage (V)		550	
Start-up DC Input Voltage (V)		80	
MPPT Operating Range (V)		70~550	
Max. DC Input Current (A)		25+25	
Number of MPPT / Strings per MPPT		2 / 2+2	
<b>Output Side</b>			
Rated Output Power (kW)		10	
Max. Active Power (kW)		11	
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)		43.5	
Max. AC Output Current (A)		47.8	
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		97.7%	
Euro Efficiency		97.5%	
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)		330W×410H×198.5D	
Weight (kg)		15.7	
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, IEC61727, VDE 0126-1-1, IEC62109-1-2	
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/Wifi/LAN	