

Single Phase String Inverter

SUN- 3.6 / 4 / 5 / 6 K-G



2 MPP trackers, 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-3.6K-G	SUN-4K-G	SUN-5K-G	SUN-6K-G
Input Side				
Max. DC Input Power (kW)	4.7	5.2	6.5	7.8
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+13			
Max. Short Circuit Current (A)	19.5+19.5			
Number of MPPT / Strings per MPPT	2 / 1			
Output Side				
Rated Output Power (kW)	3.6	4	5	6
Max. Active Power (kW)	4	4.4	5.5	6.6
Rated AC Grid Voltage (V)	220 / 230 (Optional)			
AC Grid Voltage Range (V)	180Vac~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)	15.7	17.4	21.7	26.1
Max. AC Output Current (A)	17.4	19.1	23.9	28.7
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)			
Efficiency				
Max. Efficiency	97.3%	97.5%	97.5%	97.5%
Euro Efficiency	97.1%	97.3%	97.3%	97.3%
MPPT Efficiency	>99%			
Protection				
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			
General Data				
Size (mm)	330Wx286Hx180D			
Weight (kg)	7.5			
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, IEC61000-3-11, IEC61000-3-12			
Features				
DC Connection	MC-4 mateable			
AC Connection	IP65 rated plug			
Display	LCD1602			
Interface	RS485/RS232/Wifi/LAN			