

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

Technical Data

Model	SUN-3.6K-G04		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)	70~500							
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)	3.96		4.4		5.5		6.6	
Nominal Output Voltage / Range (V)	L/N/PE 220V /230V (Optional)							
Rated Grid Frequency (Hz)	50 / 60 (Optional)							
Operating Phase	Single phase							
Rated AC Grid Output Current (A)	16.4/15.7		18.2/17.4		22.7/21.7		27.3/26.1	
Max. AC Output Current (A)	18/17.2		20/19.1		25/23.9		30/28.7	
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)	330W×323H×190D							
Weight (kg)	7.5							
Topology	Transformerless							
Internal Consumption	<1W (Night)							
Running Temperature	-25~65°C, >45°C derating							
Ingress Protection	IP65							
Noise Emission (Typical)	<35 dB							
Cooling Concept	Natural cooling							
Max. Operating Altitude Without Derating	2000m							
Designed Lifetime	>20 years							
Grid Connection Standard	VDE4105 IEC61727/62116 VDE0126 AS4777.2 CEI 0 21, EN50549-1, G98 G99 C10-11, UNE217002, NBR16149/NBR16150							
Operating Surroundings Humidity	0-100%							
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2							
Features								
DC Connection	MC-4 mateable							
AC Connection	IP65 rated plug							
Display	LCD1602							
Interface	RS485/RS232/Wifi/LAN							