



Grid-connected PV Inverter



DATASHEET

SUN-1K-G04P1-EU / SUN-1.5K-G04P1-EU /
SUN-2K-G04P1-EU / SUN-2.5K-G04P1-EU /
SUN-3K-G04P1-EU / SUN-3.6K-G04P1-EU /
SUN-4K-G04P1-EU

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Model	SUN-1K-G04P1-EU	SUN-1.5K-G04P1-EU	SUN-2K-G04P1-EU	SUN-2.5K-G04P1-EU
Input Side				
Max.DC Power	1.3 kW	2 kW	2.6 kW	3.3 kW
Max.DC Input Voltage	550 V			
Start-up DC Input Voltage	80 V			
MPPT Operating Range	70 ~ 500 V			
Max.DC Input Current	13			
Max. Short Circuit Current	19.5			
Number of Strings per MPPT	1/1			
Output Side				
Rated Output Power	1 kW	1.5 kW	2 kW	2.5 kW
Max. Active Power	1.1 kW	1.65 kW	2.2 kW	2.75 kW
Rated AC Grid Voltage	L/N/PE 220/230V			
AC Grid Voltage Range	0.85Un-1.1Un (this may vary with grid standards)			
Rated Grid Frequency	50/60 Hz (Optional)			
Operating Phase	Single Phase			
Rated AC Grid Output Current	4.5/4.3 A	6.8/6.5 A	9.1/8.7 A	11.4/10.9 A
Max.AC Output Current	5/4.8 A	7.5/7.2 A	10/9.6 A	12.5/12 A
Output Power Factor	0.8 leading~0.8 lagging			
Grid Current THD	<3%			
DC Injection Current	<0.5 mA			
Grid Frequency Range	47-52 or 57-62 (optional)			
Efficiency				
Max.Efficiency	97.3%	97.3%	97.3%	97.3%
Euro Efficiency	97.1%	97.1%	97.1%	97.1%
MPPT Efficiency	>99%			
General Data				
Size (W×H×D)	280×272.5×184 mm			
Weight	4.8 kg			
Topology	Transformerless			
Internal Consumption	<1W (Night)			
Operating Temperature Range	-25 ~ 60°C			
Ingress Protection	IP65			
Noise Emission (Typical)	<25dB			
Cooling Concept	Natural cooling			
Max. Operation Altitude	2000m			
Designed Lifetime	>20 Years			
Grid Connection Standard	IEC61727, 62116, 60068, 61683, IEC/EN62109-1/2, EN50549, IEC61000-6-1, 61000-6-3, 61000-3-11,61000-3-12			
Operation Surrounding Humidity	0~100%			
Safety EMC / Standard	IEC62109-1/-2, IEC61000-6-1, IEC61000-6-3,IEC61000-3-2, IEC61000-3-3			
DC Connection	MC-4 mateable			
AC Connection	IP65 rated plug			
Display	LCD1602			
Interface	RS485/RS232/Wifi/LAN			

Model	SUN-3K-G04P1-EU	SUN-3.6K-G04P1-EU	SUN-4K-G04P1-EU
Input Side			
Max.DC Power	3.9 kW	4.7 kW	5.2 kW
Max.DC Input Voltage	550 V		
Start-up DC Input Voltage	80 V		
MPPT Operating Range	70 ~ 500 V		
Max.DC Input Current	13		
Max. Short Circuit Current	19.5		
Number of Strings per MPPT	1/1		
Output Side			
Rated Output Power	3 kW	3.6 kW	4 kW
Max. Active Power	3.3 kW	3.96 kW	4.4 kW
Rated AC Grid Voltage	L/N/PE 220/230V		
AC Grid Voltage Range	0.85Un-1.1Un (this may vary with grid standards)		
Rated Grid Frequency	50/60 Hz (Optional)		
Operating Phase	Single Phase		
Rated AC Grid Output Current	13.6/13 A	16.4/15.7 A	18.2/17.4 A
Max.AC Output Current	15/14.3 A	18/17.2 A	20/19.1 A
Output Power Factor	0.8 leading~0.8 lagging		
Grid Current THD	<3%		
DC Injection Current	<0.5 mA		
Grid Frequency Range	47-52 or 57-62 (optional)		
Efficiency			
Max.Efficiency	97.3%	97.3%	97.3%
Euro Efficiency	97.1%	97.1%	97.1%
MPPT Efficiency	>99%		
General Data			
Size (W×H×D)	280×272.5×184 mm		
Weight	4.8 kg		
Topology	Transformerless		
Internal Consumption	<1W (Night)		
Operating Temperature Range	-25 ~ 60°C		
Ingress Protection	IP65		
Noise Emission (Typical)	<25dB		
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Operation Surrounding Humidity	0~100%		
Safety EMC / Standard	IEC62109-1/-2, IEC61000-6-1, IEC61000-6-3,IEC61000-3-2, IEC61000-3-3		
DC Connection	MC-4 mateable		
AC Connection	IP65 rated plug		
Display Interface	LCD1602 RS485/RS232/Wifi/LAN		



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