1.5/2.5kW String Inverter 1P



DATASHEET

SUNSYNK-1.5K-G04P1-EU-AM1
SUNSYNK-2.5K-G04P1-EU-AM1

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v.2 (09/12/25)

PLEASE RETAIN FOR FUTURE REFERENCE

Product Parameters

Note

Approvals and certification are subject to change without prior notice. Please confirm the current status with Sunsynk before placing an order.

Model	SUNSYNK-1.5K-G04P1-EU-AM1	SUNSYNK-2.5K-G04P1-EU-AM1
PV String Input Data		
Max. PV Input Power	2kW	3.3kW
Max. PV Input Voltage	550V	
Start-Up Voltage	80V	
PV Input Voltage Range	80-550V	
MPPT Voltage Range	70-500V	
Rated PV Input Voltage	360V	
Full Load MPPT Voltage Range	140-500V	225-500V
Max. Input Short Circuit Current	30A	
Max. Operating PV Input Current	20A	
No. of MPP Trackers/ No. of Strings MPP Tracker	1/1	
Max. Inverter Backfeed Current to the Array	0	
AC Output Side		
Rated AC Output Active Power	1.5kW	2.5kW
Max. AC Output Apparent Power	1.65kVA	2.75kVA
Rated AC Output Current	6.8/6.5A	11.4/10.9A
Max. AC Output Current	7.5/7.2A	12.5/12A
Max. Output Fault Current	13A	21.8A
Max. Output Overcurrent Protection	35.8A	
Rated Output Voltage/Range	220/230V 0.85Un-1.1.Un	
Grid Connection Form	L+N+PE	
Rated Output Grid Frequency/Range	50/45-55Hz 60/55-65Hz	
Power Factor Adjustment Range	0.8 Leading - 0.8 Lagging	
Total Current Harmonic Distortion THDi	<3%	
DC Injection Current	<0.5%In	
Efficiency		
Max. Efficiency	97.3%	
Euro Efficiency	96.9%	
MPPT Efficiency	>99%	

Equipment Protection	
Integrated	DC Reverse Polarity Protection, AC Output Over-Current Protection, AC Output Over-Voltage Protection, AC Output Short Circuit Protection, Thermal Protection, DC Terminal Insulation Impendance Monitoring, DC Component Monitoring, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (AFCI) (Optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, Over-Voltage Load Drop Protection, Residual Current (RCD) Detection
Surge Protection Level	TYPE II(DC), TYPE II(AC)
Interface	
Communication Interface	RS485/RS232
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN (Optional)
Display	LCD+LED
General Data	
Operating Temperature Range	-25 to +65°C, >45°C Derating
Permissible Ambient Humidity	0-100%
Permissible Altitude	2000m
Noise	≤35dB
Ingress Protection (IP) Rating	IP65
Inverter Topology	Non-Isolated
Over Voltage Category	OVC II(DC), OVC III(AC)
Cabinet Size (WxHxD)	280x310x184mm (Excluding Connectors and Brackets)
Weight	5.6kg
Warranty	See website for Warranty details
Type of Cooling	Natural Cooling
Grid Regulation	Approvals and certifications are subject to change without prior notice. Please confirm the current status with Sunsynk before placing an order.
Safety EMC/Standard	Approvals and certifications are subject to change without prior notice. Please confirm the current status with Sunsynk before placing an order.



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