String Inverters 3P



DATASHEET

SUN-20K-G05
SUN-25K-G05

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v.3 (06/05/26)

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	SUN-20K-G05	SUN-25K-G05
PV String Input Data		
Max. PV Input Power	26kW	32.5kW
Max. PV Input Voltage	1100V	
Start-Up Voltage	250V	
MPPT Voltage Range	200-1000V	
Rated PV Input Voltage	600V	
Max. Operating PV Input Current	26+26A	
Max. Input Short Circuit Current	39+39A	
No. of MPP Trackers/ No. of Strings MPP Tracker	2/2+2	
AC Output Side		
Rated AC Output Active Power	20kW	25kW
Max. AC Output Apparent Power	22kVA	27.5kVA
Rated AC Output Current	30.3/29A	37.9/36.2A
Max. AC Output Current	33.3/31.9A	41.7/39.8A
Rated Output Voltage/Range	220/380V, 230/400V 0.85Un-1.1Un	
Grid Connection Form	3L/N/PE	
Rated Output Grid Frequency/Range	50/45-55Hz, 60/55-65Hz	
Power Factor Adjustment Range	0.8 Leading to 0.8 Lagging	
Total Current Harmonic Distortion THDi	<3%	
DC Injection Current	<0.5%In	
Efficiency		
Max. Efficiency	98.5%	
Euro Efficiency	98.0%	
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, Insulation Impedance Detection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (Optional), Anti-Islanding Protection, Residual Current Detection, DC Switch	
Surge Protection Level	TYPE II(DC), TYPE II(AC)	
Interface		
Communication Interface	RS485/RS232	
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN (Optional)	

General Data	
Operating Temperature Range	-25 to +60°C, >45°C Derating
Permissible Ambient Humidity	0-100%
Permissible Altitude	4000m
Noise	≤50dB
Ingress Protection (IP) Rating	IP65
Inverter Topology	Non-Isolated
Over Voltage Category	OVC II(DC), OVC III(AC)
Cabinet Size (WxHxD)	362x527x220mm (Excluding Connectors and Brackets)
Weight	20kg
Warranty	See website for Warranty details
Type of Cooling	Intelligent Air Cooling
Grid Regulation	This product complies with ISO and its relevant norms and standards. Approvals and certifications are subject to change without notice. Please verify current status with Sunsynk before ordering.
Safety EMC/Standard	



Contact Us

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