10kW String Inverter 1P



DATASHEET

SUNSYNK-10K-G02P1-EU-AM2

www.sunsynk.com
sales@sunsynk.com
customerservices@sunsynk.com

v.1 (27/11/25)

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-10K-G02P1-EU-AM2
PV String Input Data	
Max. PV Input Power	15kW
Max. PV Input Voltage	550V
Start-Up Voltage	80V
MPPT Voltage Range	70-500V
Rated PV Input Voltage	360V
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	10kW
Max. AC Output Apparent Power	11kVA
Rated AC Output Current	45.5/43.5A
Max. AC Output Current	50/47.9A
Rated Output Voltage/Range	220/230V 0.85Un-1.1Un
Grid Connection Form	L/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	97.7%
Euro Efficiency	97.2%
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	3000m
Noise	≤35dB
Ingress Protection (IP) Rating	IP65
Inverter Topology	Non-Isolated
Over Voltage Category	OVC II(DC), OVC III(AC)
Cabinet Size (WxHxD)	330x410x213.5mm (Excluding Connectors and Brackets)
Weight	14.8kg
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.



Contact Us

Call +44 151 832 4300 **Email** sales@sunsynk.com **Website** www.sunsynk.com

Address

HK Room 702-704, 7/F Texwood Plaza, 6 How Ming Street, Kwun Tong, Kowloon, Hong Kong

UK Sunsynk UK Ltd, 17 Turnstone Business Park, Mulberry Avenue, Widnes, Cheshire, WA8 0WN

SA Unit 2, 3 & 4, 80 Highview Blvd, Ferndale, Randburg, 2160, South Africa

NL Sunsynk NL BV, Henri Wijnmalenweg 8, 5657 EP Eindhoven, Netherlands

AU Level 1, 982-988 Wellington Street, West Perth WA 6005, Australia

ES Tafetana, 32 P.I. Las Andoriñas 38639 Las Chafiras Santa Cruz de Tenerife

US 100 S. Ashley Drive, Suite 600, Tampa, Florida, 33602, United States of America