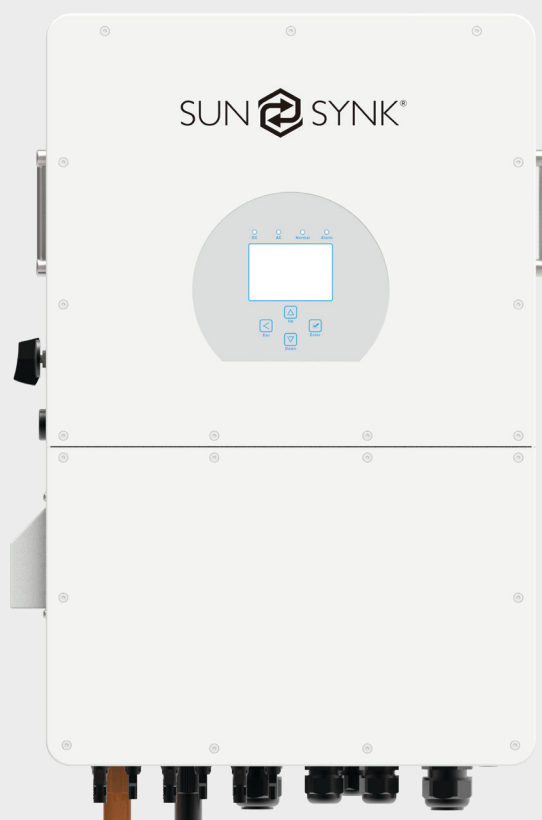




Three-Phase Hybrid Inverter



DATASHEET

SUNSYNK-30K-SG02HP3-EU-AM3

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v.1 (09/03/26)

 **PLEASE RETAIN FOR
FUTURE REFERENCE**

Product Parameters

Note

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

Model	SUNSYNK-30K-SG02HP3-EU-AM3
Battery Input Data	
Battery Type	Lithium-Ion
Battery Voltage Range	160-700V
Max. Charging Current	75A
Max. Discharging Current	75A
Charging Strategy for Li-Ion Battery	Self-Adaption to BMS
Number of Battery Input	1
PV String Input Data	
Max. PV Access Power	60000W
Max. PV Input Power	48000W
Max. PV Input Voltage	1000V
Start-up Voltage	180V
MPPT Voltage Range	150-850V
Rated PV Input Voltage	600V
Max. Operating PV Input Current	36+36+36A
Max. Input Short-Circuit Current	54+54+54A
No. of MPPT/No. of Strings per MPPT	3/2+2+2
AC Input/Output Data	
Rated AC Input/Output Active Power	30000W
Max. AC Input/Output Apparent Power	33000VA
Rated AC Input/Output Current	45.5/43.5A
Max. AC Input/Output Current	50/47.9A
Max. Continuous AC Passthrough (Grid to Load)	80A
Peak Power (Off-Grid)	1.5 Times of Rated Power, 10s
Power Factor Adjustment Range	0.8 Leading to 0.8 Lagging
Rated Input/Output Voltage/Range	220/380V, 230/400V 0.85Un-1.1Un
Rated Input/Output Grid Frequency/Range	50Hz/45-55Hz, 60Hz/55-65Hz
Grid Connection Form	3L+N+PE
Total Current Harmonic Distortion THDi	<3% (of Nominal Power)
DC Injection Current	<0.5% In
Efficiency	
Max. Efficiency	98.5%
Euro Efficiency	98.0%
MPPT Efficiency	>99%

Protection	
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection
Surge Protection Level	TYPE II (DC), TYPE II (AC)
Interface	
Display	LCD+LED
Communication Interface	RS485/RS232/CAN
Monitor Mode	GPRS/Wi-Fi/Bluetooth/4G/LAN (Optional)
General Data	
Operating Temperature Range	-40 to +60°C, >45°C Derating
Permissible Ambient Humidity	0-100%
Permissible Altitude	3000m
Noise	≤55dB
Ingress Protection (IP) Rating	IP65
Inverter Topology	Non-Isolated
Over Voltage Category	OVC II (DC), OVC III (AC)
Weight	46kg
Dimensions (WxHxD)	448x688x270mm (Excluding Connectors and Brackets)
Type of Cooling	Intelligent Air Cooling
Warranty	See website for Warranty details
Grid Regulation	Approvals and certifications are subject to change without prior notice. Please confirm the current status with Sunsynk before placing and order.
Safety/EMC Standard	



Contact Us

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