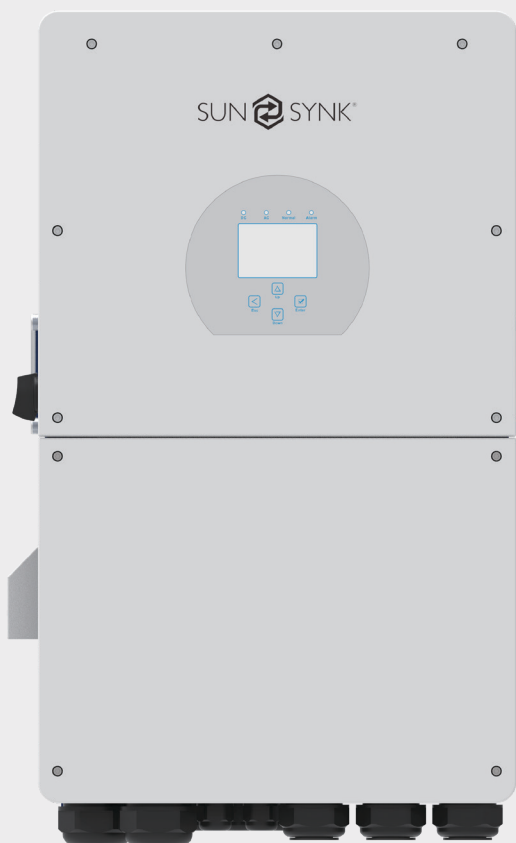




16kW Single-Phase Hybrid Inverter



DATASHEET

SYNK-16K-SG01LP1PLUS

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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	SYNK-16K-SG01LP1PLUS
Battery Input Data	
Battery Type	Lead-Acid or Lithium-Ion
Battery Voltage Range	40~60V
Max. Charge Current	290A
Max. Discharge Current	290A
Charging Strategy for Li-Ion Battery	Self-Adaptation to BMS
Number of Battery Input	2
PV String Input Data	
Max. PV Access Power	32000W
Max. DC Input Power	25600W
Max. DC Input Voltage	500V
Start-up Voltage	125V
MPPT Voltage Range	150V~425V
Rated DC Input Voltage	370V
Max. Operating PV Input Current	36A + 36A + 36A
Max. Input Short-Circuit Current	54A + 54A + 54A
No. of MPPT / Strings Per MPPT	3/2+2+2
AC Input/Output Data	
Rated AC Input/Output Active Power	16000W
Max. AC Input/Output Apparent Power	17600VA
Rated AC Input/Output Current	72.8/69.6
Max. AC Input/Output Current	80/76.6A
Max Continuous AC Passthrough (Grid to Load)	100A
Peak Power (Off-Grid)	2 Times of Rated Power, 10s
Power Factor Adjustment Range	0.8 Leading to 0.8 Lagging
Rated Input/Output Voltage/Range	220/230V 0.85Un-1.1Un
Rated Input/Output Grid Frequency/Range	50/45-55Hz, 60/55-65Hz
Grid Connection Form	L+N+PE
Total Current Harmonic Distortion THDi	<3% (of Nominal Power)
DC Injection Current	<0.5%In
Efficiency	
Max. Efficiency	97.6%
Euro Efficiency	96.5%
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	
Communication Interface	RS485/RS232/CAN
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN (Optional)
Certifications and Standards	
Grid Regulation	Approvals and certifications are subject to change without prior notice. Please confirm the current status with Sunsynk before placing an order.
EMC/Safety Regulation	
General Data	
Operating Temperature Range	-40 to +60°C, >45°C Derating
Permissible Ambient Humidity	0~100%
Permissible Altitude	3000m
Noise	<55
Ingress Protection (IP) Rating	IP65
Inverter Topology	Non-Isolated
Over Voltage Category	OVC II(DC),OVC IV(AC)
Dimension (WxHxD)	464x763x282 (Excluding Connectors and Brackets)
Weight	54.1kg
Cooling Type	Intelligent Air Cooling
Warranty	See website for Warranty details



Contact Us

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