



SINGLE-PHASE HYBRID INVERTER




INSTALLER MANUAL

SUNSYNK-8K-SG01LP1 / SUNSYNK-8K-SG02LP1

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Model	SUNSYNK-8K-SG01LP1 / SUNSYNK-8K-SG02LP1
Battery Input Data	
Battery Type	Lead-acid or Li-Ion
Battery Voltage Range	48Vd.c (40Vd.c ~ 60Vd.c)
Max. Charging/Discharging Current	190Ad.c (max.)
Charging Curve	3 Stages / Equalization
External Temperature Sensor	Yes
Charging Strategy for Li-Ion Battery	Self-adaption to BMS
PV String Input Data	
Max. DC Input Power	10400W
PV Input Voltage	370V (125V~500V)
MPPT Range	150~425V
Start-up Voltage	125V
PV Input Current	26Ad.c + 26Ad.c
Max PV Isc	44Ad.c + 44Ad.c
No. of MPPT Trackers	2
No. of Strings Per MPPT Tracker	2+2
AC Output Data	
Rated AC Output and UPS Power	8000W
Max. AC Output Power	8800W
Peak Power (off grid)	2 times of rated power, 10s
AC Output Rated Current	34.8A
Max. AC Current	38.3A
Max. Continuous AC Passthrough	50A
Power Factor	0.8 leading to 0.8 lagging
Output Frequency and Voltage	50 / 60Hz; 208Vac (2 / 3 Phase), 220/230Vac (Single Phase)
Grid Type	2 / 3 Phase; Single Phase
Total Harmonic Distortion (THD)	<3% (of nominal power)
DC current injection	<0.5% In
Efficiency	
Max. Efficiency	97.60%
Euro Efficiency	97.00%
MPPT Efficiency	>99%
Protection	
Integrated	PV Arc Fault Detection, PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection
Surge Protection	DC Type II / AC Type II
Over Voltage Category	DC Type II / AC Type III
Certifications and Standards	
Grid Regulation	EN 50549-1, AS-NZS 4777.2, NRS 097-2-1
EMC/Safety Regulation	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2

General Data

Operating Temperature Range	-40~60 °C, >45 °C Derating
Cooling	Smart cooling
Noise	<30 dB
Communication with BMS	RS485; CAN
Net Weight	32kg
Gross Weight	38.5kg
Cabinet size	420W×670H×233D (Excluding connectors and brackets)
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 years



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