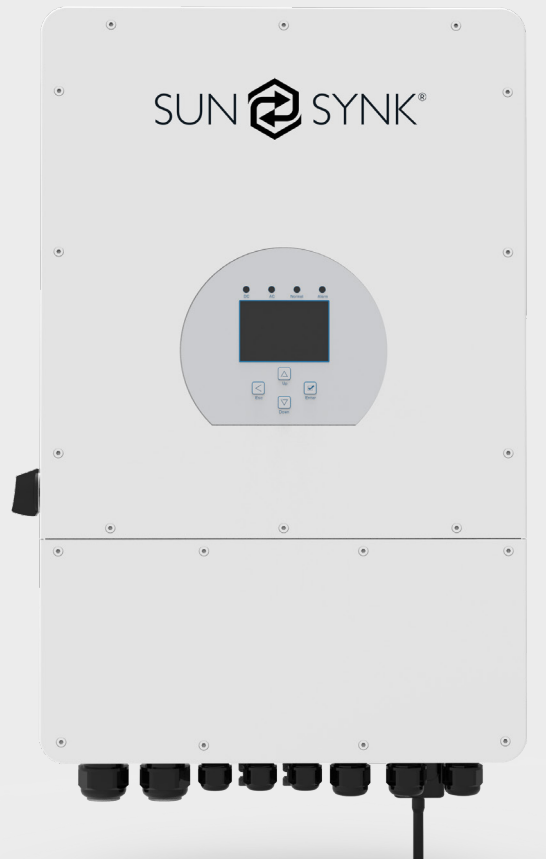




SINGLE-PHASE HYBRID INVERTER




DATASHEET

SUNSYNK-10K-SG02LP1
SUNSYNK-12K-SG02LP1

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v.3 (01/16/24)

 PLEASE RETAIN FOR
FUTURE REFERENCE

Model	SUNSYNK-10K-SG02LP1	SUNSYNK-12K-SG02LP1
Battery Input Data		
Battery Type	Lead-acid or Lithium-ion	
Battery Voltage Range	40~60V	
Max. Charge Current	220A	250A
Max. Discharge Current	220A	250A
External Temperature Sensor	Yes	
Charging Curve	3 Stages / Equalization	
Charging Strategy for Li-Ion Battery	Self-Adaptation to BMS	
PV String Input Data		
Max. DC Input Power	13000W	15600W
Rated PV Input Voltage	370V (125~500V)	
Start-up Voltage	125V	
MPPT Voltage Range	150V-425V	
Full Load DC Voltage Range	200V-425V	
PV Input Current	26A+26A+26A	
Max. PV Isc	44A+44A+44A	
No. of MPPT / Strings Per MPPT	3 / 2+2+2	
AC Output Data		
Rated AC Output Active Power	10000	12000
Max AC Output Active Power	11000	13200
AC Output Rated Current	45.5/43.5A	54.6/52.2A
Max. AC Output Current	50/47.9A	60/57.4A
Max. Continuous AC Passthrough	70A	
Peak Power (Off Grid)	2 Time of Rated Power, 10 S	
Power Factor Adjustment Range	0.8 Leading to 0.8 Lagging	
Power Factor	1	
Output Frequency and Voltage	50 / 60Hz; L/N/PE 220/230Vac	
Grid Type	Split Phase; 2/3 phase; Single Phase	
Total Harmonics Current Distortion (THDi)	<3% (of nominal power)	
DC Current Injection	<0.5% In	
Efficiency		
Max. Efficiency	97.60%	
Euro Efficiency	97.00%	
MPPT Efficiency	99.90%	
Protection		
Integrated	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	
Over Voltage Category	DC Type II/AC Type III	
Certifications and Standards		
Grid Regulation	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150	
Safety EMC / Standard	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	
Weight	32kg	
Size (WxHxD mm)	420W×670H×233D mm (Excluding connectors and brackets)	
Protection Degree	IP65	
Installation Style	Wall-mounted	



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