



# SINGLE-PHASE HYBRID INVERTER



## DATASHEET

SUNSYNK-12K-SG01LP1  
SUNSYNK-14K-SG01LP1  
SUNSYNK-16K-SG01LP1

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Model	SUNSYNK-12K-SG01LP1	SUNSYNK-14K-SG01LP1	SUNSYNK-16K-SG01LP1
<b>Battery Input Data</b>			
Battery Type	Lead-acid or Lithium-ion		
Battery Voltage Range	40~60V		
Max. Charge Current	220A	250A	290A
Max. Discharge Current	220A	250A	290A
Charging Curve	3 Stages/Equalisation		
External Temperature Sensor	Yes		
Charging Strategy for Li-Ion Battery	Self-Adaptation to BMS		
<b>PV String Input Data</b>			
Max. DC Input Power	15600W	18200	20800
Max PV Input Voltage	370V (125~500V)		
MPPT Range	150V~425V		
Start-up Voltage	125V		
PV Input Current	26A + 26A + 26A	26A + 26A + 26A	26A + 26A + 26A
Max. PV Isc	44A + 44A + 44A	44A + 44A + 44A	44A + 44A + 44A
No. of MPPT / Strings Per MPPT	3 / 2+2+2		
<b>AC Output Data</b>			
Max. On-Grid AC Power	12000W	14000W	16000W
Max. AC Output Apparent Power	12000VA	14000VA	16000VA
Max. Off-Grid AC Power	13200W	15400W	17600W
Peak Power (off-grid)	2 times of rated power, 10 S		
AC Output Rated Current	54.5/52.2A	63.6/60.9A	72.7/69.6A
Max AC Current	60/57.4A	70/67A	80/76.5A
Max Continuous AC Passthrough	100A		
Power Factor	0.8 leading to 0.8 lagging		
Output Frequency and Voltage	50Hz/60Hz; 230/240Vac (single phase)		
Grid Type	Single-Phase		
Current Harmonic Distortion	THD < 3% (of nominal power)		
<b>Efficiency</b>			
Max. Efficiency	97.60%		
Euro Efficiency	96.50%		
MPPT Efficiency	99.90%		
<b>Protection</b>			
Integrated	PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Surge protection, DC Battery Current Protection		
<b>Certifications and Standards</b>			
Grid Regulation	VDE4105, IEC61727/62116, VDE0126, AS/NZS 4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150		
Safety EMC / Standard	IEC/EN 62109-1/2, IEC/EN 61000-6-1/2/3/4		

## General Data

Operating Temperature Range	-40~60°C, >45°C Derating
Cooling	Smart cooling
Noise	<50dB
Communication with BMS	RS485; CAN
Weight	48kg
Size	464W×763H×282D mm (Excluding connectors and brackets)
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 years



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