



THREE-PHASE HYBRID INVERTER




DATASHEET

SUNSYNK-8K-SG04LP3-AU
SUNSYNK-10K-SG04LP3-AU
SUNSYNK-12K-SG04LP3-AU

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FUTURE REFERENCE**

Model	SUNSYNK-8K-SG04LP3-AU	SUNSYNK-10K-SG04LP3-AU	SUNSYNK-12K-SG04LP3-AU
Battery Input Data			
Battery Type	Lead-acid or Li-Ion		
Battery Voltage Range	40-60V		
Max. Charging/Discharging Current	190A	210A	240A
Charging Curve	3 Stages / Equalization		
External Temperature Sensor	Yes		
Charging Strategy for Li-Ion Battery	Self-adaption to BMS		
PV String Input Data			
Max. PV Input Power	12000W	15000W	18000W
Rated PV Input Voltage	550V (160-800V)		
MPPT Voltage Range	200-650V		
Start-up Voltage	160V		
Full Load PV Voltage Range	350-650V		
PV Input Current	13+13A	26+13A	
Max. PV Isc	19.5+19.5A	39+19.5A	
No. of MPPT Trackers	2		
No. of Strings Per MPPT Tracker	1+1	2+1	
AC Output Data			
Rated AC Output and UPS Power	8000W	10000W	12000W
Rated Apparent Output Power	8000VA	10000VA	12000VA
Max. AC Output Power	8000W	10000W	12000W
AC Output Rated Current	11.6A	14.5A	17.4A
Max. AC Output Current	11.6A	14.5A	17.4A
Max. Three-phase Unbalanced Output Current	17.4A	21.7A	26.1A
Max. Continuous AC Passthrough	45A		
Peak Power (Off-Grid)	2 times of rated power, 10 S		
Power Factor	0.8 leading to 0.8 lagging		
Output Frequency and Voltage	50Hz; 3L/N/PE 230/400, 240/415Vac		
Grid Connection Form	3L+N+PE		
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	PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge protection
Integrated (Active Frequency Shift)	Anti-islanding Protection
Over Voltage Category	DC Type II / AC Type III
Certifications and Standards	
Grid Regulation	AS-NZS 4777.2
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 to +60 °C, >45 °C Derating
Cooling	Smart Cooling
Noise	≤55 dB
Communication with BMS	RS485; CAN
Net Weight	38.5 kg
Gross Weight	47.5 kg
Cabinet Size	422W×702H×281D (Excluding connectors and brackets)
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 Years

Importer

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