



THREE-PHASE HYBRID INVERTER



DATASHEET

SYNK-8K-SG04LP3
SYNK-10K-SG04LP3
SYNK-12K-SG04LP3

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Model	SYNK-8K-SG04LP3	SYNK-10K-SG04LP3	SYNK-12K-SG04LP3
Battery Input Data			
Battery Type	Lead-acid or Li-Ion		
Battery Voltage Range	40Vd.c ~ 60Vd.c		
Max. Charging/Discharging Current	190Ad.c (max.)	210Ad.c (max.)	240Ad.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	13000W	15600W
PV Input Voltage	550Vd.c (160Vd.c ~ 800Vd.c)		
MPPT Range	200Vd.c ~ 650Vd.c		
Start-up Voltage	160V		
PV Input Current	13Ad.c + 13Ad.c	26Ad.c + 13Ad.c	
Max. PV Isc	17Ad.c + 17Ad.c	34Ad.c + 17Ad.c	
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
Max. AC Output Power	8800W	11000W	13200W
Peak Power(off grid)	2 times of rated power, 10s		
AC Output Rated Current	12.1/11.6A	15.2/14.5A	18.2/17.4A
Max. AC Current	13.4/12.8A	16.7/15.9A	20/19.1A
Max. Three-phase Unbalanced Output Current	18.2/17.4A	22.7/21.7A	27.3/26.1A
Max. Output Short Circuit Current	75A		
Max. Continuous AC Passthrough	45A		
Output Frequency and Voltage	50/60Hz;3L/N/PE 220/380, 230/400Vac (Three phase)		
Grid Type	Three 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 III / AC Type III		
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; Additional connections available upon request
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	≤45 dB
Communication with BMS	RS485; CAN
Net Weight	38.5kg
Gross Weight	47.5kg
Cabinet size	422W×702H×281D (Excluding connectors and brackets)
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 years



CONTACT US

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