

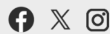


SINGLE-PHASE HYBRID INVERTER

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DATASHEET

SYNK-3.6K-SG03LP1

SYNK-5K-SG03LP1

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Model	SYNK-3.6K-SG03LP1		SYNK-5K-SG03LP1	
Battery Input Data				
Battery Type	Lead-acid or Li-Ion			
Battery Voltage Range	48Vd.c (40Vd.c ~ 60Vd.c)			
Max. Charging/Discharging Current	90Ad.c (max.)		120Ad.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	4680W		6500W	
PV Input Voltage	370V (125V~500V)			
MPPT Range	150~425V			
Full Load DC Voltage Range	300~425V			
Start-up Voltage	125V			
PV Input Current	13Ad.c + 13Ad.c			
No. of MPPT Trackers	2			
No. of Strings Per MPPT Tracker	1+1			
AC Output Data				
Rated AC Output and UPS Power	3600W		5000W	
Max. AC Output Power	3960W		5500W	
Peak Power(off grid)	2 times of rated power, 10s			
AC Output Rated Current	16.4/15.7Aa.c		22.7/21.7Aa.c	
Max. AC Current	18/17.2Aa.c		25/23.9Aa.c	
Max. Continuous AC Passthrough	35A			
Power Factor	0.8 leading to 0.8 lagging			
Output Frequency and Voltage	50/60Hz; 220/230 (single phase)			
Grid Type	Single Phase			
Total Harmonic Distortion (THD)	<3% (of nominal power)			
DC current injection	<0.5% In			
Efficiency				
Max. Efficiency	97.60%			
Euro Efficiency	96.50%			
MPPT Efficiency	>99%			
Protection				
PV Input Lightning Protection	Integrated			
Anti-islanding Protection	Integrated			
PV String Input Reverse Polarity Protection	Integrated			
Insulation Resistor Detection	Integrated			
Residual Current Monitoring Unit	Integrated			
Output Over Current Protection	Integrated			
Output Shorted Protection	Integrated			
Surge Protection	DC Type II / AC Type II			
Over Voltage Category	DC Type II / AC Type III			

Model	SYNK-3.6K-SG03LP1	SYNK-5K-SG03LP1
Certifications and Standards		
Grid Regulation	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150	
EMC/Safety Regulation	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4	
General Data		
Operating Temperature Range	-40~60 °C, >45 °C Derating	
Cooling	Smart cooling	
Noise	<30 dB	
Communication with BMS	RS485; CAN	
Weight	20.5kg	
Cabinet size	330W×580H×232D mm (Excluding connectors and brackets)	
Protection Degree	IP65	
Installation Style	Wall-mounted	
Warranty	5 years	



CONTACT US



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