



ECCO HYBRID INVERTER




DATASHEET

SYNK-3.6K-SG04LP1 / SYNK-5K-SG04LP1

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Model	SYNK-3.6K-SG04LP1	SYNK-5K-SG04LP1
Battery Input Data		
Battery Type	Lead-acid or Lithium-ion	
Battery Voltage Range	40~60V	
Max. Charging Current	90A	120A
Max. Discharging Current	90A	120A
Charging Curve	3 Stages/Equalisation	
Number of Battery Input	Yes	
Charging Strategy for Li-Ion Battery	Self-Adaptation to BMS	
PV String Input Data		
Max. DC Input Power	7000W	6500W
PV Input Voltage	370V (125V~500V)	
MPPT Range	150~425V	
Start-up Voltage	125V	
Full Load DC Voltage Range	300~425V	
PV Input Current	13+13A	
Max. PV Isc	17+17A	
No. of MPPT / Strings Per MPPT	2/1+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, 10 S	
AC Output Rated Current	16.4/15.7A	22.7/21.7A
Max AC Current	18/17.2A	25/23.9A
Max Continuous AC Passthrough	35A	40A
Output Frequency and Voltage	50/60Hz; L/N/PE 220/230Vac (single phase)	
Grid Type	Single-Phase	
Current Harmonic Distortion	THD<3%(Linear load<1.5%)	
DC Current Injection	<0.5% In	
Efficiency		
Max. Efficiency	97.60%	
MPPT Efficiency	96.50%	
Euro Efficiency	>99.00%	
Protection		
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	
Certifications and Standards		
Grid Connection Standard	EN 50549-1, AS-NZS 4777.2, NRS 097-2-1; Additional connections available upon request	
EMC/Safety Standards	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2	

General Data

Operating Temperature Range	-45~60°C, >45°C Derating	
Cooling	Natural Cooling	
Noise	<30dB	
Communication with BMS	RS485; CAN	
Weight	14.6kg	17.5kg
Size	330W x 433H x 238D mm	
Protection Degree	IP65	
Installation Style	Wall-mounted	
Warranty	5 years	



CONTACT US

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