



# ECCO HYBRID INVERTER




## DATASHEET

SYNK-8K-SG05LP1

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Model	SYNK-8K-SG05LP1-EU
<b>Battery Input Data</b>	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range	40~60V
Max. Charging Current	190A
Max. Discharging Current	190A
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	10400W
PV Input Voltage	370V (125V~500V)
MPPT Range	150~425V
Start-up Voltage	125V
Full Load DC Voltage Range	200~425V
PV Input Current	26A+26A
Max. PV Isc	34A+34A
No. of MPPT / Strings Per MPPT	2/2+2
<b>AC Output Data</b>	
Rated AC Output and UPS Power	8000W
Max. AC Power	8800W
Peak Power (off-grid)	2 times of rated power, 10 S
AC Output Rated Current	34.8A
Max AC Current	38.3A
Max Continuous AC Passthrough	50A
Output Frequency and Voltage	50/60Hz; L/N/PE 230Vac (Single-Phase)
Grid Type	Single-Phase
Current Harmonic Distortion	THD<3%(Linear load<1.5%)
<b>Efficiency</b>	
Max. Efficiency	97.60%
MPPT Efficiency	97.00%
Euro 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
<b>Certifications and Standards</b>	
Grid Regulation	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11
Safety EMC / Standard	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	20.5kg
Size	330W x 580H x 237D mm
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 years



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