



ECCO HYBRID INVERTER



DATASHEET

SYNK-7K-SG05LP1

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Model	SYNK-7K-SG05LP1
Battery Input Data	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range	40~60V
Max. Charging Current	175A
Max. Discharging Current	175A
Charging Curve	3 Stages/Equalisation
External Temperature Sensor	Yes
Charging Strategy for Li-Ion Battery	Self-Adaptation to BMS
PV String Input Data	
Max. DC Input Power	10000W
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
AC Output Data	
Rated AC Output and UPS Power	7000W
Max. AC Power	7700W
Peak Power (off-grid)	2 times of rated power, 10 S
AC Output Rated Current	30.5A
Max AC Current	33.5A
Max Continuous AC Passthrough	50A
Output Frequency and Voltage	50/60Hz; L/N/PE 230Va.c. (Single-Phase)
Grid Type	Single-Phase
Current Harmonic Distortion	THD<3%(Linear load<1.5%)
Efficiency	
Max. Efficiency	97.60%
MPPT Efficiency	97.00%
Euro Efficiency	99.90%
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 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
Net Weight	25.5kg
Gross Weight	30kg
Size	330W x 580H x 237D mm
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 Years / 10 Years if Installed with a Sunsynk Battery



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