



ECCO HYBRID INVERTER



DATASHEET

SUN-3.6/5/6/7.6/8K-SG05LP1-EU

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Model	SUN-3.6K- SG05LP1-EU	SUN-5K- SG05LP1-EU	SUN-6K- SG05LP1-EU	SUN-7.6K- SG05LP1-EU	SUN-8K- SG05LP1-EU
Battery Input Data					
Battery Type	Lead-acid or Lithium-ion				
Battery Voltage Range	40~60V				
Max. Charging Current	90A	120A	135A	190A	190A
Max. Discharging Current	90A	120A	135A	190A	190A
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	7000W	6500W	7800W	9880W	10400W
PV Input Voltage	370V (125V~500V)				
MPPT Range	150~425V				
Start-up Voltage	125V				
Full Load DC Voltage Range	300~425V			200~425V	
PV Input Current	13A+13A			26A+26A	
Max. PV Isc	17A+17A			34A+34A	
No. of MPPT / Strings Per MPPT	2/1+1				
AC Output Data					
Rated AC Output and UPS Power	3600W	5000W	6000W	7600W	8000W
Max. AC Power	3680W	5500W	6600W	8360W	8800W
Peak Power (off-grid)	2 times of rated power, 10 S				
AC Output Rated Current	15.7A	22.7A	27.3A	34.5A	36.4A
Max AC Current	17.2A	25A	30A	38A	40A
Max Continuous AC Passthrough	35A		30A	50A	
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%)				
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
Weight	20.5kg
Size	330W x 580H x232D mm
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 years



CONTACT US

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