

SUN  SYNK

SUNSYNK ECCO

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



www.sunsynk.org

PRODUCT INTRODUCTION

The Sunsynk Ecco Hybrid Inverter is a highly efficient power management tool that allows the user to hit those 'parity' targets by managing power-flow from multiple sources such as solar, mains power (grid) and generators, and then effectively storing and releasing power as and when utilities require.

INTERACTIVE

- Easy and simple to understand display
- Supporting Wi-Fi or GSM monitoring
- Visual power flow screen
- Parallel / multi invert function grid-tied and off-grid

COMPATIBLE

- Compatible with main electrical grid voltages or power generators
- Compatible with wind turbines
- Self-consumption and feed-in to the grid
- Auto restart while AC is recovering
- Auto earth bond feature (Via a relay)

CONFIGURABLE

- Fully programmable controller
- Programmable supply priority for battery or grid
- Programmable multiple operation modes: on-grid/off-grid & UPS
- Configurable battery charging - current/voltage based on the application
- Configurable AC / solar / generator charger priority by LCD setting

SECURE

- Overload/over-temperature/short-circuit protection
- Smart battery charger design for optimized battery protection
- Limiting function installed to prevent excess power overflow to grid



Colorful touch LCD, IP65 protection degree



DC couple and AC couple to retrofit existing solar system



Max. 16 inverters in parallel; Support multiple batteries parallel



Max. charging/discharging current of 190A



6 time periods for battery charging/discharging



Support storing energy from diesel generator

TECHNICAL DATA

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	4680W	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	3690W	5500W	6600W	8360W	8800W
Peak Power (off-grid)	2 times of rated power, 10 S				
AC Output Rated Current	16.4A	22.7A	27.3A	34.5A	36.4A
Max AC Current	18A	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 x 232D mm				
Protection Degree	IP65				
Installation Style	Wall-mounted				
Warranty	5 years				

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Audio Training manuals on Apple Pod Cast and Spotify.
Full training support, manuals and videos on www.sunsynk.com



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