

# SUN SYNK

## SUNSYNK ECCO

SUN-3/3.6/5/6K-SG04LP1-EU



[www.sunsynk.org](http://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 140A



6 time periods for battery charging/discharging



Support storing energy from diesel generator

## TECHNICAL DATA

Model	SUN-3K- SG04LP1-24-EU	SUN-3K- SG04LP1-EU	SUN-3.6K- SG04LP1-EU	SUN-5K- SG04LP1-EU	SUN-6K- SG04LP1-EU
<b>Battery Input Data</b>					
Battery Type	Lead-acid or Lithium-ion				
Battery Voltage Range	20~30V	40~60V			
Max. Charging Current	140A	70A	90A	120A	135A
Max. Discharging Current	140A	70A	90A	120A	135A
Charging Curve	3 Stages/Equalisation				
Number of Battery Input	Yes				
Charging Strategy for Li-Ion Battery	Self-Adaptation to BMS				
<b>PV String Input Data</b>					
Max. DC Input Power	3900W	3900W	4680W	6500W	7800W
PV Input Voltage	370V (125V~500V)				
MPPT Range	150~425V				
Start-up Voltage	125V				
Full Load DC Voltage Range	300~425V				
PV Input Current	13A		13+13A		
Max. PV Isc	17A		17+17A		
No. of MPPT / Strings Per MPPT	1/1		2/1+1		
<b>AC Output Data</b>					
Rated AC Output and UPS Power	3000W		3600W	5000W	6000W
Max. AC Power	3300W		3690W	5500W	6600W
Peak Power (off-grid)	2 times of rated power, 10 S				
AC Output Rated Current	13.6A		16.4A	22.7A	27.3A
Max AC Current	15A		18A	25A	30A
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%)				
<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				
<b>General Data</b>					
Operating Temperature Range	-45~60°C, >45°C Derating				
Cooling	Natural Cooling				
Noise	<30dB				
Communication with BMS	RS485; CAN				
Weight	11.4kg			14kg	
Size	330W x 433H x 238D 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](http://www.sunsynk.com)



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