



# ECCO HYBRID INVERTER



## DATASHEET

SUNSYNK-3.6K-SG04LP1-AU  
SUNSYNK-5K-SG04LP1-AU

[www.sunsynk.au](http://www.sunsynk.au)  
[sales.au@sunsynk.com](mailto:sales.au@sunsynk.com)  
[customerservices@sunsynk.com](mailto:customerservices@sunsynk.com)

Model	SUNSYNK-3.6K-SG04LP1-AU	SUNSYNK-5K-SG04LP1-AU
<b>Battery Input Data</b>		
Battery Type	Lead-acid or Lithium-ion	
Battery Voltage Range	40~60V	
Max. Charging Current	90A	120A
Max. Discharging Current	90A	120A
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. PV Input Power	5400W	7500W
Rated PV Input Voltage	370V (125V~500V)	
MPPT Range	150~425V	
Start-up Voltage	125V	
Full Load DC Voltage Range	300~425V	
PV Input Current	13+13A	
Max. PV Isc	19.5+19.5A	
No. of MPPT / Strings Per MPPT	2/1+1	
<b>AC Output Data</b>		
Rated AC Output and UPS Power	3600VA	5000VA
Max. AC Output Power	3600W	5000W
Peak Power (off-grid)	2 times of rated power, 10 S	
AC Output Rated Current	15.7A	21.7A
Max AC Current	15.7A	21.7A
Max Continuous AC Passthrough	35A	
Output Frequency and Voltage	230/400V 240/415V 0.85Un-1.1Un	
Grid Connection Form	L+N+PE	
Total Harmonics Current Distortion (THDi)	< 3% (of nominal power)	
DC Current Injection	<0.5% In	
<b>Efficiency</b>		
Max. Efficiency	97.60%	
Euro Efficiency	96.50%	
MPPT Efficiency	99.90%	
<b>Protection</b>		
Integrated	PV Arc Fault Detection, PV Input Lightning Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection	
Integrated (Active Frequency Shift)	Anti-islanding Protection	
Surge Protection	DC Type II / AC Type III	

### Certifications and Standards

Grid Connection Standard	AS-NZS 4777.2
EMC/Safety Standards	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	14.6kg	17.5kg
Size	330W x 433H x 238D mm	
Protection Degree	IP65	
Installation Style	Wall-mounted	
Warranty	5 years	



#### NOTE:

##### Safe Transport and Handling of Inverter:

When transporting the equipment, use its original packaging and keep it as a complete unit. Store the product in a dry environment, avoiding direct sunlight, and maintain a temperature range between -40°C and 60°C. Since the equipment can be quite heavy, always consider its total weight when moving, transporting, or installing it, ensuring that the installation site has adequate load-bearing capacity. Transporting and installing the inverter should be carried out solely by qualified personnel.

## Importer

Sunsynk Australia Pty Ltd

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## Manufacturer

Sunsynk Limited HK ( Part of Global Tech )

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## CONTACT US

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**SA Address:** Globaltech Sunsynk South Africa (Pty) Ltd, Unit 2 Highview Boulevard, Ferndale 2194.

**NL Address:** Sunsynk NL BV, Henri Wijnmalenweg 8, 5657 EP Eindhoven, Netherlands.

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