

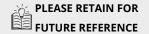
# ECCO HYBRID INVERTER



# **DATASHEET**

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

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Model	SUNSYNK-3.6K-SG04LP1-AU	SUNSYNK-5K-SG04LP1-AU
Battery Input Data		
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-lon		
Battery	Self-Adaptation to BMS	
PV String Input Data		
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	
AC Output Data		
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 Distor-		
tion (THDi)	< 3% (of nominal power)	
DC Current Injection	<0.5% In	
Efficiency		
Max. Efficiency	97.60%	
Euro Efficiency	96.50%	
MPPT Efficiency	99.90%	
Protection		
Integrated	PV Arc Fault Detection, PV Input Lightning Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Cur- rent 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**

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#### Manufacturer

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