



# SUNSYNK MAX




## DATASHEET

SUNSYNK-16K-SG01LP1-AU

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v.9 (08/05/24)

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FUTURE REFERENCE**

Model	SUNSYNK-16K-SG01LP1-AU
<b>Battery Input Data</b>	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range	40~60V
Max. Charge Current	290A
Max. Discharge Current	290A
Charging Curve	3 Stages/Equalization
External Temperature Sensor	Yes
Charging Strategy for Li-Ion Battery	Self-Adaptation to BMS
<b>PV String Input Data</b>	
Max. PV Input Power	24000W
Max. PV Input Voltage	500V
Start-up Voltage	125V
Input Voltage Range	150V~425V
MPPT Full Power Voltage Range	250V~425V
Rated DC Input Voltage	370
Max. Operating PV Input Current	26A + 26A + 26A
Max. PV Isc	44A + 44A + 44A
No. of MPPT / Strings Per MPPT	3 / 2+2+2
<b>AC Output Data</b>	
Rated AC Output Active Power	16000W
Max. AC Output Apparent Power	16000VA
AC Output Rated Current	69.6A
Max. AC Current	69.6A
Max. Continuous AC Passthrough	100A
Peak Power (Off-Grid)	2 times of rated power, 10 S
Power Factor	0.8 leading to 0.8 lagging
Output Frequency and Voltage	50Hz/60Hz; 220/230Vac (single phase)
Grid Connection Form	L+N+PE
Total Current Harmonic 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%
<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 Level	TYPE II(DC), TYPE II(AC)
Over Voltage Category	OVC II(DC), OVC III(AC)

### Certifications and Standards

Grid Regulation	AS-NZS 4777.2
EMC / Safety Regulation	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2

### General Data

Operating Temperature Range	-40 to +60°C, >45°C Derating
Cooling	Intelligent Air Cooling
Noise	<50dB
Communication with BMS	RS485; CAN
Net Weight	52kg
Gross Weight	60kg
Size	464W×763H×282D mm (Excluding connectors and brackets)
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 Years

## Importer

Sunsynk Australia Pty Ltd

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## Manufacturer

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