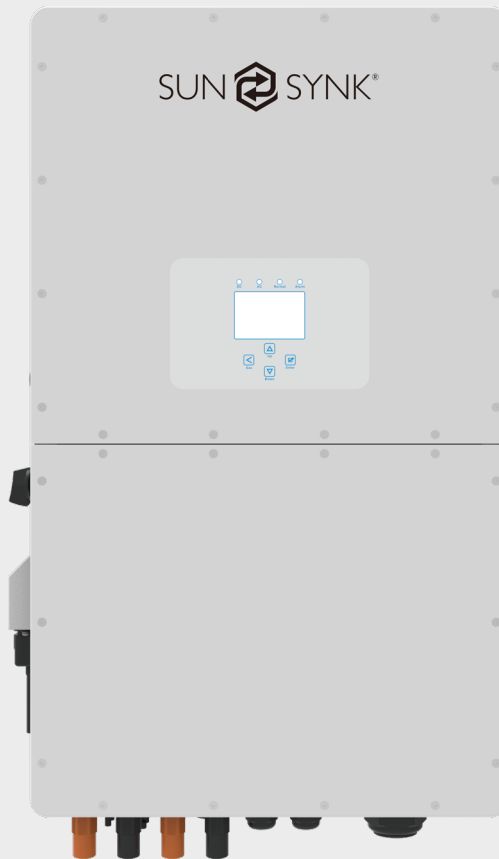




THREE-PHASE HYBRID INVERTER



DATASHEET

SUNSYNK-29.9K-SG01HP3-AU-BM3
SUNSYNK-30K-SG01HP3-AU-BM3
SUNSYNK-35K-SG01HP3-AU-BM3
SUNSYNK-40K-SG01HP3-AU-BM4
SUNSYNK-50K-SG01HP3-AU-BM4

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sales@sunsynk.com
customerservices@sunsynk.com

| Model | SUNSYNK-29.9K-SG01HP3-AU-BM3 | SUNSYNK-30K-SG01HP3-AU-BM3 | SUNSYNK-35K-SG01HP3-AU-BM3 | SUNSYNK-40K-SG01HP3-AU-BM4 | SUNSYNK-50K-SG01HP3-AU-BM4 |
|--|--------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Battery Input Data | | | | | |
| Battery Type | Li-Ion | | | | |
| Battery Voltage Range | 160~800V | | | | |
| Max. Charging Current | 50A+50A | | | | |
| Max. Discharging Current | 50A+50A | | | | |
| Number of Battery Input | 2 | | | | |
| Charging Strategy for Li-Ion Battery | Self-adaption to BMS | | | | |
| PV String Input Data | | | | | |
| Max. DC Input Power | 38870W | 39000W | 45500W | 52000W | 65000W |
| Max. DC Input Voltage | 1000V | | | | |
| Start-up Voltage | 180V | | | | |
| Min. Input DC Operating Voltage Range | 180-1000V | | | | |
| MPPT Range | 150-850V | | | | |
| Full Load DC Voltage Range | 360-850V | 360-850V | 420-850V | 360-850V | 450-850V |
| Rated DC Input Voltage | 600V | | | | |
| PV Input Current | 36+36+36A | | | 36+36+36+36A | |
| Max. PV Isc | 55+55+55A | | | 55+55+55+55A | |
| No. of MPPT Trackers | 3 | | | 4 | |
| No. of Strings per MPPT Tracker | 2+2+2 | | | 2+2+2+2 | |
| AC Output Data | | | | | |
| Rated AC Output and UPS Power | 29900W | 30000W | 35000W | 40000W | 50000W |
| Rated Apparent Output Power | 29900VA | 30000VA | 35000VA | 40000VA | 50000VA |
| Max. AC Output Power | 29900W | 30000W | 35000W | 40000W | 50000W |
| AC Output Rated Current | 43.4A | 43.5A | 50.8A | 58.0A | 72.5A |
| Max. AC Output Current | 43.4A | 43.5A | 50.8A | 58.0A | 72.5A |
| Max. Three-Phase Unbalanced Output Current | 60A | 60A | 60A | 70A | 83.3A |
| Max. Continuous AC Passthrough | 200A | | | | |
| Peak Power (Off-Grid) | 1.5 time of rated power, 10 S | | | | |
| Generator Input/Aux Load/AC Couple Current | 43.4/200/43.4A | 43.5/200/43.5A | 50.8/200/50.8A | 58/200/58A | 72.5/200/72.5A |
| Power Factor | 0.8 leading to 0.8 lagging | | | | |
| Output Frequency and Voltage | 50/60Hz; 3L/N/PE 220/380, 230/400Vac | | | | |
| Grid Type | Three Phase | | | | |
| Total Harmonic Distortion (THD) | <3% (of nominal power) | | | | |
| DC Injection Current (mA) | <0.5% In | | | | |

| Efficiency | |
|-------------------------------------|---|
| Max. Efficiency | 97.60% |
| Euro Efficiency | 97.00% |
| MPPT Efficiency | 99.90% |
| Protection | |
| Integrated | PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge Protection |
| Integrated (Active Frequency Shift) | Anti-islanding Protection |
| Protection Level | Class I |
| Over Voltage Category | DC Type II / AC Type III |
| 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 | -40~60 °C, >45 °C Derating |
| Cooling | Intelligent Cooling |
| Noise | ≤65 dB |
| Communication with BMS | RS485; CAN |
| Net Weight | 84.90 kg |
| Gross Weight | 100.50 kg |
| Size | 527W×894H×294D mm (Excluding connectors and brackets) |
| Protection Degree | IP65 |
| Installation Style | Wall-mounted |
| Inverter Topology | Non-isolated |
| Warranty | 5 Years |

Importer

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