



RACK-MOUNTED HYBRID PARITY (SUPER) INVERTER



DATASHEET

SUNSYNK-6K-SG02LP1 / SUNSYNK-7.6K-SG02LP1

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| Model | SUNSYNK-6K-SG02LP1 | SUNSYNK-7.6K-SG02LP1 |
|---|---|----------------------|
| Battery Input Data | | |
| Battery Type | Lead-acid or Lithium-ion | |
| Battery Voltage Range | 40~60V | |
| Max. Charging Current | 135A | 190A |
| Max. Discharging Current | 135A | 190A |
| Charging Curve | 3 Stages/Equalisation | |
| External Temperature Sensor | Optional | |
| Charging Strategy for Li-Ion Battery | Self-Adaptation to BMS | |
| PV String Input Data | | |
| Max. DC Input Power | 7800W | 9880W |
| PV Input Voltage | 370V (100V~500V) | |
| MPPT Range | 125~425V | |
| Start-up Voltage | 150V | |
| PV Input Current | 18A+9A | 22A+22A |
| No. of MPPT Trackers | 2 | |
| No. of Strings Per MPPT Tracker | 2+1 | 2+2 |
| AC Output Data | | |
| Rated AC Output and UPS Power | 6000W | 7600W |
| Max. AC Power | 6600W | 8360W |
| Peak Power (off-grid) | 2 times of rated power, 10 S | |
| AC Output Rated Current | 25A | 31.7A/33A |
| Max AC Output Current | 27.5A | 34.9A/36.3A |
| Max Continuous AC Passthrough | 40A | 50A |
| Output Frequency and Voltage | 50/60Hz; 120/240Vac(split phase), 208Vac(2/3), 230Vac(single phase) | |
| Grid Type | Split phase, 2/3 phase, Single phase | |
| Current Harmonic Distortion | THD<3%(Linear load<1.5%) | |
| Efficiency | | |
| Max. Efficiency | 97.60% | |
| MPPT Efficiency | 96.50% | |
| Euro Efficiency | 99.90% | |
| Protection | | |
| PV Arc Fault Detection | Integrated (Except European Type) | |
| PV Input Lightning Protection | Integrated | |
| Anti-islanding Protection | Integrated | |
| PV String Input Reverse Polarity Protection | Integrated | |
| Insulation Resistor Detection | Integrated | |
| Residual Current Monitoring Unit | Integrated | |
| Output Over Current Protection | Integrated | |
| Output Shorted Protection | Integrated | |
| Output Over Voltage Protection | Integrated | |

Certifications and Standards

| | |
|-------------------|---|
| Grid Regulation | UL1741, IEEE1547, RULE21, VDE0126, AS4777, NRS2017, G98,G99, IEC61683, IEC62116, IEC61727 |
| Safety Regulation | IEC62109-1, IEC62109-2 |
| EMC | EN61000-6-1, EN61000-6-3, FCC 15 Class B |

General Data

| | |
|-----------------------------|--------------------------|
| Operating Temperature Range | -25~60°C, >45°C Derating |
| Cooling | Fan |
| Noise | <30 |
| Communication with BMS | RS485; CAN |
| Warranty | 5 years |



CONTACT US

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