



SUNSYNK MAX



DATASHEET

SYNK-16K-SG01LP1

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| Model | SYNK-16K-SG01LP1 |
|--------------------------------------|---|
| Battery Input Data | |
| 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 |
| PV String Input Data | |
| Max. DC Input Power | 20800W |
| Max PV Input Voltage | 370V (125~500V) |
| MPPT Range | 150V~425V |
| Start-up Voltage | 125V |
| PV Input Current | 26A + 26A + 26A |
| Max. PV Isc | 44A + 44A + 44A |
| No. of MPPT / Strings Per MPPT | 3 / 2+2+2 |
| AC Output Data | |
| Max. On-Grid AC Power | 16000W |
| Max. Off-Grid AC Power | 17600W |
| Max. AC Output Apparent Power | 16000VA |
| Peak Power (off-grid) | 2 times of rated power, 10 S |
| AC Output Rated Current | 72.7/69.6A |
| Max AC Current | 80/76.5A |
| Max Continuous AC Passthrough | 100A |
| Power Factor | 0.8 leading to 0.8 lagging |
| Output Frequency and Voltage | 50Hz/60Hz; 220/230Vac (single phase) |
| Grid Type | Single-Phase |
| Current Harmonic Distortion | THD < 3% (of nominal power) |
| DC Current Injection | < 0.5% In |
| Efficiency | |
| Max. Efficiency | 97.60% |
| Euro Efficiency | 96.50% |
| MPPT Efficiency | > 99% |
| Protection | |
| Integrated | PV Arc Fault Detection, PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection |
| Surge Protection | DC Type II / AC Type II |
| Over Voltage Category | DC Type II / AC Type III |
| Certifications and Standards | |
| Grid Regulation | EN 50549-1, AS-NZS 4777.2, NRS 097-2-1; Additional connections available upon request |
| 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 | Smart 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 |



CONTACT US

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