



SUNSYNK MAX



DATASHEET

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| Model | SUNSYNK MAX |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Battery Input Data | |
| Battery Type | Lead-acid or Lithium-ion |
| Battery Voltage Range | 43~60V |
| Max. Charge Current | 300A |
| Max. Discharge Current | 300A |
| Charging Curve | 3 Stages/Equalisation |
| External Temperature Sensor | Yes |
| Charging Strategy for Li-Ion Battery | Self-Adaptation to BMS |
| PV String Input Data | |
| Max. DC Input Power | 18000W |
| Max PV Input Voltage | 450V |
| MPPT Range | 250V~450V |
| Start-up Voltage | 150V |
| PV Input Current | 26A + 26A + 26A |
| Max. PV Isc | 26A + 26A + 26A |
| No. of MPPT / Strings Per MPPT | 3 / 2 |
| AC Output Data | |
| Max. On-Grid AC Power | 16000W |
| Max. Off-Grid AC Power | 13000W |
| Peak Power (off-grid) | 2 times of rated power, 10 S |
| AC Output Rated Current | 65A |
| Max AC Current | 70A |
| Max Continuous AC Passthrough | 150A |
| Bypass Current | 150A |
| Frequency Range | 45Hz ~55Hz |
| Voltage Range | 211V ~ 264V |
| Grid Type | Single-Phase |
| Current Harmonic Distortion | THD<3%(Linear load<1.5%) |
| Efficiency | |
| Max. Efficiency | 97.60% |
| Euro Efficiency | 97.00% |
| MPPT Efficiency | 99.90% |
| Protection | |
| Integrated | PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Surge protection, DC Battery Current Protection |
| Certifications and Standards | |
| Grid Regulation | VDE 0126, AS4777, NRS2017, G98, G99, IEC61683, IEC62116, IEC61727, RD1699:2011, XP C15-712-3:2019-05 |
| Safety EMC / Standard | IEC62109-1, IEC62109-2, EN61000-6-1, EN61000-6-3 |

| General Data | |
|-----------------------------|-------------------|
| Operating Temperature Range | -25~55°C |
| Cooling | Fan |
| Noise | <30dB |
| Communication with BMS | RS485; CAN |
| Weight | 34.5kg |
| Size | 422W×702H×281D mm |
| Protection Degree | IP65 |
| Installation Style | Wall-mounted |
| Warranty | 5 years |

