



# SUNSYNK MAX

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## DATASHEET

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| Model                                | SUNSYNK MAX                                                                                                                                                                                                                                             |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Battery Input Data</b>            |                                                                                                                                                                                                                                                         |
| 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                                                                                                                                                                                                                                  |
| <b>PV String Input Data</b>          |                                                                                                                                                                                                                                                         |
| 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                                                                                                                                                                                                                                                   |
| <b>AC Output Data</b>                |                                                                                                                                                                                                                                                         |
| 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%)                                                                                                                                                                                                                                |
| <b>Efficiency</b>                    |                                                                                                                                                                                                                                                         |
| Max. Efficiency                      | 97.60%                                                                                                                                                                                                                                                  |
| Euro Efficiency                      | 97.00%                                                                                                                                                                                                                                                  |
| MPPT Efficiency                      | 99.90%                                                                                                                                                                                                                                                  |
| <b>Protection</b>                    |                                                                                                                                                                                                                                                         |
| 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 |
| <b>Certifications and Standards</b>  |                                                                                                                                                                                                                                                         |
| 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           |



## CONTACT US

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