



# SOLAR MAS MICROINVERTER Datasheet



## Safe & Reliable

- Built-in relay for emergency physical disconnection
- EMC-certified for household safety-level radiation
- 60V low-voltage operation, 6000V surge protection
- IP67, weatherproof and stable



## Efficient & Optimized

- Start-up of 20V, 150% overload capacity for higher energy yield
- Module-level MPPT, supports 2 to 4 PV modules, up to 2000VA max. output
- 16A design, ideal for high-power PV modules



## Easy & Flexible

- Compact hook design, easy installation
- Plug-and-play with flexible scalability
- Sub-1G and WiFi support, iMesh for stability



## Smart & Manageable

- Intelligent layout with rapid module-level visualization
- Module-level monitoring for precise fault positioning
- One-click OTA enabling fast fault resolution

# Solar Mas 2S Pro

# Solar Mas 1S Pro

## Technical Specifications

| Product Model                       | Solar Mas 1S Pro                                   | Solar Mas 2S Pro      |
|-------------------------------------|----------------------------------------------------|-----------------------|
| Input (DC)                          |                                                    |                       |
| Typical Module Compatibility        | 400 – 670+ W                                       | 400 – 670+ W          |
| Min./Max. MPPT Voltage              | 16 – 60V                                           |                       |
| Max. Input Voltage                  | 65V                                                |                       |
| Start-up Input Voltage              | 20V                                                |                       |
| Max. Short-circuit DC Input Current | 2 * 20A                                            | 4 * 20A               |
| Max. Input Current                  | 2 * 16A                                            | 4 * 16A               |
| Output (AC)                         |                                                    |                       |
| Nominal Output Power                | 1000VA                                             | 2000VA                |
| Nominal Output Current              | 4.55A / 4.35A / 4.17A                              | 9.09A / 8.70A / 8.33A |
| Nominal Output Voltage              | 220V / 230V / 240V                                 |                       |
| Adjustable Output Voltage Range     | 183 – 276V                                         |                       |
| Nominal Frequency                   | 50 / 60Hz                                          |                       |
| Adjustable Output Frequency Range   | 45 – 55Hz, 55 – 65Hz                               |                       |
| Power Factor (default / adjustable) | >0.99 / 0.8 leading...0.8 lagging                  |                       |
| THDi                                | < 3%                                               |                       |
| Max. Units Per 10AWG Branch¹        | 6 / 6 / 6                                          | 3 / 3 / 3             |
| Max. Units Per 12AWG Branch¹        | 4 / 5 / 5                                          | 2 / 2 / 2             |
| Efficiency                          |                                                    |                       |
| Peak Efficiency                     | 96.70%                                             | 96.70%                |
| Nominal MPPT Efficiency             | 99.80%                                             | 99.80%                |
| Night-time Power Loss               | < 30mW                                             | < 30mW                |
| General Data                        |                                                    |                       |
| Operating Ambient Temperature       | -40 to +65°C                                       |                       |
| Dimensions (W*H*D)                  | 252*180*35mm                                       | 310*236*35.5mm        |
| Degree of Protection                | IP67                                               |                       |
| Cooling                             | Natural Cooling – No fans                          |                       |
| Weight                              | 3kg                                                | 5kg                   |
| Features                            |                                                    |                       |
| Communication¹                      | Sub-1G / Built-in WiFi                             |                       |
| Type of Isolation                   | High frequency transformers, Galvanically isolated |                       |
| Warranty                            | 12 years standard, 25 years optional               |                       |
| Protection                          |                                                    |                       |
| Input Reverse Connection Protection | Yes                                                | Yes                   |
| Output Overcurrent Protection       | Yes                                                | Yes                   |
| Output Overvoltage Protection       | Yes                                                | Yes                   |
| Anti-islanding Protection           | Yes                                                | Yes                   |
| Output Short-circuit Protection     | Yes                                                | Yes                   |

¹ Sub-1G: Solar Mas 1S Pro / Solar Mas 2S Pro, Built-in WiFi: Solar Mas 1S Pro / Solar Mas 2S Pro

Nominal voltage/frequency range can vary depending on local requirements.

Refer to local requirements for exact number of microinverters per branch.