# SINUS PRO ULTRA 10000 48/230V (5000W/10000VA) SOLAR INVERTER + 80A MPPT (145V) OFF-GRID

DISCONTINUED

PRODUCT CODE
**3SSH500048**

EAN
**5904100450763**

CATEGORY
**Solar inverters and energy storage systems**

SUBCATEGORY
**SINUS PRO ULTRA solar inverters (off-grid, standalone, MPPT, 1F)**

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## ABOUT THE PRODUCT

SINUS PRO ULTRA 10000 48/230V (5000W/10000VA) SOLAR INVERTER + 80A MPPT (145V) OFF-GRID is a device combining the functions of an inverter, solar charger and battery charger. It operates as an off-grid inverter, independently of the power grid, using energy from solar panels stored in batteries and supplied to connected loads.

The device generates a pure sine-wave voltage, allowing it to supply consumer electronics, household appliances, office equipment, power tools, pumps and compressors. The clear LCD display and buttons enable configuration of selected settings, including the battery charging current, the AC or solar charging priority, and the input voltage range.

The inverter offers compatibility with mains voltage and generator power, automatic restart after AC power is restored, a cold-start function, and short-circuit, overload and thermal protection. The PC SolarLife software, available at https://voltpolska.pl/solarmonitor.exe, is used to monitor device operation.

W photovoltaic installations, the use of batteries designed for cyclic charging is recommended, such as gel GEL VPRO SOLAR, DEEP CYCLE VPRO SOLAR or lithium LiFePO4 batteries. The appropriate battery type and charging current suitable for its capacity must be selected, as incorrect settings may lead to battery damage and loss of warranty.

## TECHNICAL SPECIFICATIONS

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|---|---|---|
| **General Parameters** | **Continuous power** | 5000W |
| | **Total power (momentary)** | 10000VA |
| | **Output voltage waveform** | Pure sine wave |
| | **No-load power consumption** | 65W |
| | **Maximum efficiency** | 90% ~ 93% (in inverter mode: 90%) |
| | **Transfer time** | 10 ms (mode UPS / VDE4105) / 20 ms (APL mode) |

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## TECHNICAL SPECIFICATIONS - CONTINUED

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|---|---|---|
| **Input Parameters (Mains)** | **Nominal input voltage** | 230 VAC |
| | **Input voltage range selection** | 170 ~ 280 VAC (UPS) / 90 ~ 280 VAC (APL) / 184 ~ 253 VAC (VDE) |
| | **Input frequency** | 50 Hz / 60 Hz (Auto) |
| **Output Parameters (AC)** | **Output voltage (battery mode)** | 220 VAC ~ 240 VAC (230 VAC ± 5%) |
| **Battery and Communication** | **Battery system voltage** | 48 VDC |
| | **Supported battery types** | AGM, Gel, Flooded lead-acid, LiFePO4 / Li-ion |
| | **Communication with energy storage systems (BMS)** | Yes (supported via CAN port / RS485 ) |
| | **Bulk charging voltage** | 56,4 VDC |
| | **Float voltage** | 54,8 VDC |
| | **Overcharge protection** | 60 VDC |
| **Solar Parameters (MPPT) and Charging** | **Built-in solar controller** | MPPT-80A |
| | **Maximum PV panel power** | 4000W |
| | **Operating voltage range MPPT (Vmp)** | 60 ~ 130 VDC |
| | **Maximum PV open-circuit voltage (Voc)** | 145 VDC |
| | **Maximum safe operating current of panels (Imp)** | up to 26A – 30A (input limit MPPT) |
| | **Maximum safe panel short-circuit current (Isc)** | up to 30A – 35A |
| | **Maximum mains charging current** | 60A (1~60A adjustment) |
| | **Maximum total charging current (Mains + PV)** | 140A |
| **Protection and Connections** | **Recommended input protection AC** | Circuit breaker 50A |
| | **Recommended battery protection DC** | Circuit breaker / fuse 125A – 150A |
| **General Data and Installation** | **Recommended operating temperature** | 0°C ~ 50°C |
| | **Operating humidity** | 5% ~ 95% |
| | **Device dimensions (D x W x W)** | 485 x 318 x 129 mm |
| | **Net weight** | 11,5 kg |
| | **Individual package dimensions** | 575 x 425 x 219 mm |
| | **Individual package weight** | 12,5 kg |

## PRODUCT GALLERY











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