# POWER SINUS 4000 12/230V (4000W/12000VA) BACKUP POWER SUPPLY

REGULAR RANGE



PRODUCT CODE
**3SSP400012**

EAN
**5904100450022**

CATEGORY
**Backup power supply**

SUBCATEGORY
**POWER SINUS backup power supplies (high-power)**

PRODUCT PAGE
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## ABOUT THE PRODUCT

POWER SINUS 4000 12/230V (4000W/12000VA) BACKUP POWER SUPPLY is a device combining the functions of an inverter, charger and automatic AC switch. It operates as a UPS power supply with a Pure Sine voltage waveform, providing stable power supply and the ability to operate loads requiring high starting current.

The power supply is designed to work with various types of batteries with a voltage of 12V. It can supply, among other things, refrigerators, freezers, compressors and air compressors, motorhomes, pumps and central heating boilers, gates and solar systems.

Thanks to the sinusoidal output voltage waveform, the device is suitable for powering inductive loads such as power tools, air compressors, air conditioners, refrigerators and freezers. The power supply is equipped with overload, thermal, undervoltage, short-circuit and battery overcharge protection.

The device provides a continuous power of 4000W and a total instantaneous power of 12000VA. The switching time between the mains and the battery is a maximum of 10 ms. The output voltage is 230V, the frequency is 50 ± 0,3Hz, and the waveform is Pure sine.

## TECHNICAL SPECIFICATIONS

| | | |
|---|---|---|
| **General Parameters** | **Continuous power** | 4000W |
| | **Total power (instantaneous)** | 12000VA |
| | **Power factor** | 0.8 - 1.0 cos φ |
| | **Efficiency** | Up to 88% (in inverter mode) / >95% (in mains mode) |
| | **Mains/battery switching time** | 10 ms (max) |

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## TECHNICAL SPECIFICATIONS - CONTINUED

| | | |
|---|---|---|
| **Input Parameters (Mains)** | **Input voltage range (mains)** | 184 - 254 VAC (Narrow mode - SW2 pos. 0) / 140 - 270 VAC (Wide mode - SW2 pos. 1) |
| | **Input frequency range** | Narrow: 47-55 Hz / Wide: 43-55 Hz |
| **Output Parameters (AC)** | **Output voltage** | 230V |
| | **Output voltage frequency** | 50 ± 0,3Hz |
| | **Output voltage waveform** | Pure sine |
| | **Harmonic distortion (THD)** | < 10% |
| **Battery and Charging** | **Battery voltage** | 12 VDC |
| | **Input voltage range (battery)** | 10,5V - 15V ± 0,5VDC |
| | **Max. charging current** | 115 ± 5A |
| | **Supported battery types (charging modes)** | 1. Gel U.S.A. — 14.0V / 13.7V |
| **Bypass and Protections** | **Input voltage waveform** | Sine wave (mains or generator) |
| | **Undervoltage cut-off** | 184V / 154V ±4% |
| | **Undervoltage activation** | 194V / 164V ±4% |
| | **Overvoltage cut-off** | 253V ±4% |
| | **Overvoltage activation** | 243V ±4% |
| | **Protection** | Short-circuit protection (with current limiter function after 1s), overcharge, overvoltage and undervoltage protection |
| **General Data and Installation** | **Operating temperature** | from -20°C to 40°C; (above 40°C, the load must be reduced; maximum temperature 50°C) |
| | **Humidity** | < 95%, non-condensing |
| | **Mounting** | Wall mounting or horizontal installation |
| | **Device dimensions** | 597 x 222,4 x 180,6 mm |
| | **Net weight** | 27 kg ±3% |
| | **Individual package dimensions** | 755 x 315 x 310 mm |
| | **Unit packaging weight** | 29 kg ±3% |

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## PRODUCT GALLERY













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