

Datasheet

Backup power GETI GEP301 sinus 300W Wall-mounted (500VA)

The GETI emergency power supply system (EPS - Emergency Power Supply) is a device that provides a source of alternating voltage in the event of a power failure. You can use the Power Supply System (EPS) as a backup source for various pumps, automatic boilers, feeders, emergency lighting, camera systems and more. In normal mode, the connected device is powered directly from the network, and in the event of a failure, the emergency power system automatically switches to inverter mode. The connected device is then powered by the connected battery. If the power supply is not restored, the system (EPS) may switch off when the voltage of the connected battery drops to a value around $10.2V \pm 0.3V$. This is to protect the battery from deep discharge and subsequent damage. The EPS is equipped with a clear colour display, a pure sine voltage converter based on a toroidal transformer and a fast 32-bit processor.

Warning: the contacts of the connected battery must be properly protected against: contact with persons, foreign bodies, contact with other parts of the system or short circuits.

Product description:

- inverter, UPS, AVR and charger in one device
- clear LED colour display
- high efficiency due to construction with toroidal transformer
- high charging current
- protection against overload, short circuit, overcharging and reverse polarity.

Technical parameters:

- type of backup batteries: AGM, GEL
- backup battery voltage: 12V DC
- rated capacity: 500VA
- rated power: 300W
- transformer: toroid
- input voltage: 230 V AC - 50Hz
- output voltage: 230V AC $\pm 3\%$ - 50Hz / pure sine wave
- charging current: 5 A / 10 A optional
- charging voltage: $13.6V \pm 0.3V$
- low battery voltage limit: $11 V \pm 0.3V$
- battery low voltage protection point: $10.5V \pm 0.3V$
- transfer time: < 4 ms
- cooling system: Yes
- operating temperature: 0 ~ 40°C
- relative humidity: 10% ~ 90%
- storage temperature: -15°~ 45°C
- cable length to battery: 2 x 75 cm, M8



Emergency power source GETI

GEP300 sinus 300W / GEP301 sinus 300W wall-mounted

GEP500 sinus 500W / GEP501 sinus 500W wall-mounted

GEP700 sinus 700W / GEP701 sinus 700W wall-mounted

Introduction

Thank you for purchasing the Geti GEPxxxx emergency power supply. Before putting the device into operation, please read this manual, where you will find all the necessary information. The manufacturer is not responsible for damages caused by improper handling of the product or use that is not in accordance with its purpose.

Technical parameters

| Model | GEP300 | GEP301 | GEP500 | GEP501 | GEP700 | GEP701 |
|---------------------------|---|-------------|---------------------------|-------------|---------------------------|-------------|
| Cat. Nr. | 04230582 | 04230584 | 04230583 | 04230585 | 04230627 | 04230628 |
| Rated power | 300 W | | 500 W | | 700 W | |
| Rated capacity | 500 VA | | 800 VA | | 1000 VA | |
| Battery voltage | 12 V DC | | 12 V DC | | 12 V DC | |
| Charging current | 5 A / 10 A | | 5 A / 10 A | | 10 A / 20 A | |
| Charging voltage | 13,8 V ± 0,5 V | | 13,8 V ± 0,5 V | | 13,8 V ± 0,5 V | |
| Input voltage | 150–270 V AC | | 150–270 V AC | | 150–270 V AC | |
| Input frequency | 50 Hz | | 50 Hz | | 50 Hz | |
| Output voltage | 230 V AC ± 1 % (inverter) | | 230 V AC ± 1 % (inverter) | | 230 V AC ± 1 % (inverter) | |
| Inverter output frequency | 50 Hz | | 50 Hz | | 50 Hz | |
| Inverter output waveform | pure sine wave | | pure sine wave | | pure sine wave | |
| Deviation | ≤ 3 % | | ≤ 3 % | | ≤ 3 % | |
| Active cooling | YES | | YES | | YES | |
| Protection | Overload, High temperature, High/low output voltage, Low battery voltage, Short circuit, Overcharge | | | | | |
| Operating temperature | 0–40 °C | | 0–40 °C | | 0–40 °C | |
| Air humidity | 10–90 % RH | | 10–90 % RH | | 10–90 % RH | |
| Dimensions (mm) | 230×145×180 | 253×241×102 | 230×145×180 | 230×145×180 | 146×338×170 | 311×232×140 |
| Weight | 5 kg | 4 kg | 6,5 kg | 4 kg | 6,4 kg | 6,5 kg |

Product features

The Geti pure sine wave emergency power supply offers a charger function in addition to UPS and AVR functions.

- Suitable for pumps, automatic boilers, televisions, refrigerators, electric fans, emergency lights and more
- The construction of the transformer is designed for high efficiency and low static losses
- 32-bit processor with fast response and more accurate detection
- Colored LED display that clearly shows the device status, input and output voltage, load and battery status
- Intelligent cooling fan control that works with the set temperature and the working status of the emergency power source

Precautions

- This emergency power source is designed for office equipment and home appliances. Do not use the device in conjunction with special medical or industrial equipment.
- Avoid overloading the emergency power source. Do not connect equipment exceeding the rated load of the inverter. Connecting such a device can lead to damage of the emergency power source.
- When the emergency power source is connected to a source of power, the inverter output will work under voltage - even when the unit is turned off.
- In case of fire, use a powder fire extinguisher. Never extinguish the device with water. There is a high risk of an electric shock.
- If the emergency power supply or the connected appliance is not working properly, immediately disconnect the emergency power supply from the battery power and the mains power. Do not use this unit any further and contact your vendor regarding repairs.
- Only an authorized service center can repair the faulty emergency power supply.
- Do not disassemble or otherwise modify the emergency power supply. There is a risk of electric shock.
- Overload protection in inverter mode: In case of overload in the range of 110-130% power, the output will be disconnected within 30 sec. If the overload is greater than 130%, the output will be disconnected immediately.
- Overload protection when powered from the mains: The unit warns of overload until the fuse burns out.

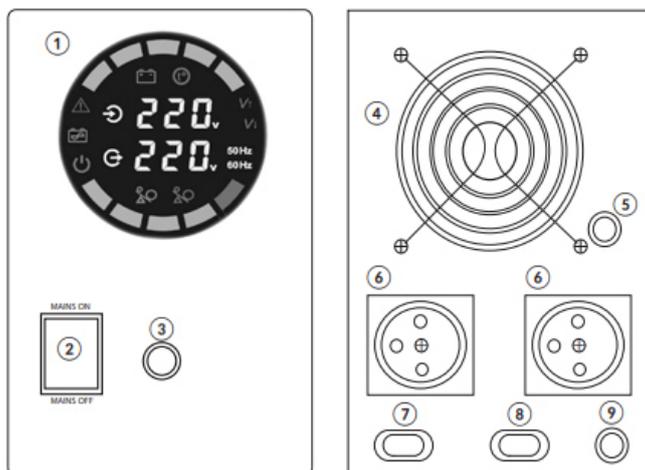
Note:

Due to the fact that it is an electrical device with associated risks while using, we recommend that the installation and setup of the emergency power supply be carried out only by a qualified person with electrical device installation approval.

CAUTION: Improper use of the emergency power supply may result in fire or electric shock.

Product description

1. Desktop version



2. Wall-mounted version



1. Display
2. Mains switch - only for desktop version. After connecting the emergency power supply to the grid and turning on this switch, the backup source will work in grid mode and will charge the battery. When it is turned off, or during a grid power failure, the unit switches to inverter mode. Connected appliances will then be powered by the battery.
3. Inverter switch (press and hold for more that 2 seconds to turn the inverter output on or off)
4. Cooling fan cover
5. Overload protection
6. Sockets for connecting appliances (French type)
7. Battery connection (+ contact)
8. Battery connection (- contact)
9. Grid power input 230 V AC

Description of the LCD display

| | |
|--|---|
| | Mains supply 230 V AC |
| | Appliances are powered by the battery Mains power failure |
| | Temperature is too high The inverter output will be turned off |
| | Battery overvoltage, short circuit or high temperature |
| | Mains voltage is high |
| | Mains voltage is low |
| | Status/load level indicator Blue (normal state) / Red (overload) |
| | Battery status indicator The bar will flash while charging |
| | Input voltage value |
| | Value of output voltage and frequency |

Interference with radio equipment

Some radio equipment may show signs of interference when in close proximity to this emergency power supply. We recommend operating radio devices at a sufficient distance from the backup source.

Installation

WARNING: Because this product is an electrical device, there are risks associated with its operation.

We recommend that work connected with the connection of the backup source is performed only by a person qualified to work on electrical equipment.

- If you find damage when opening the packaging, do not use the product and contact your dealer.
- Position the unit so that sufficient air circulation is ensured. The recommended distance between the fan and the wall should be at least 10 cm.
- Place the product at a sufficient distance from other devices and heat sources.
- Do not install the emergency power supply upside down, do not expose it to direct sunlight, keep it away from children, water, moisture, oils, grease and any flammable substances.
- Make sure that the AC input voltage and frequency match the requirements of the emergency power source.
- The unit must be properly connected to the protective earth conductor before use.
- The mains switch is switched to the OFF position.

Battery connection

- Use the emergency power source only with GEL or AGM lead-acid batteries. We recommend the use of GETI brand VRLA accumulators.
- Before connecting the battery, make sure that the backup source is switched off and disconnected from the mains.
- Observe the correct polarity of the connected battery.
- Connect the red cable to the “+” pole and the black cable to the “-” pole of the battery.
- When connecting the battery, be careful not to reverse or short circuit the connection. This may result in electric shock or damage to the device.
- If connected incorrectly, the device will not work properly.
- Every 6 months, we recommend checking the condition of the battery, discharging it and charging it accordingly with the charger.
- Connect the device you want to back up to the sockets of the emergency power source.
- Connect the unit to the mains voltage.
- Turn the mains switch to the ON position (for desktop version only).
- Press the inverter switch and hold for more than 2 seconds.
- **WARNING:** Battery contacts must be adequately protected against accidental contact or short circuit.

Cleaning and maintenance

- Clean the product with a soft, dry cloth. Do not use aggressive cleaning agents.
- Before maintenance, make sure the device is switched off and disconnected from power sources.

Disposal of the product



This symbol means that the device should not be disposed of with common household waste. To prevent possible damage to the environment or health, recycle the device responsibly to support the sustainability of natural resource recovery. To return your used device, use collection devices or contact the dealer from whom you purchased the device. They can send the device for environmentally safe recycling.

