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1. Purpose

The PS-203-60A power supply unit (PSU) is designed to feed unregulated 24 VDC to various pieces of shipboard or industrial equipment and various devices needing uninterrupted power supply.

2. Delivery Set

Power supply unit PS-203-60A
 Operation manual
 piece

3. Specifications

Supply voltage 220 VAC, 50/60 Hz Rated output voltage **24 VDC** Rated load current 60 A 1500 W Rated power Maximum ripple 1.5 V Efficiency 87% Overall dimensions 433 x 305 x 125.5 mm Working temperature -20...+55 °C Storage temperature -60...+70 °C Maximum weight 15 kg Index of protection IP 22

Input voltage (220 VAC) is indicated with a yellow LED.

When the main power supply is ON, the output voltage (24 VDC) is indicated with a green LED.

The output power supply is galvanically isolated from the mains.

4. Basic Functions and Technical Description

The PSU gets 220 VAC, 50/60 Hz from the mains and provides 24 VDC at the output. The PSU circuitry includes a step-down transformer, an electronic rectifier, emergency supply switching circuits and an output for an external alarm unit.

In addition to the mains, the *BATT* terminals of the PSU are powered from standby sources or from rechargeable batteries so as to ensure trouble-free operation of the equipment connected to the PSU.

The PSU will be switched over to a standby source automatically if the main power source fails, is turned off or is unavailable at the PSU. If there is a failure in the input power supply, dry contacts of the relay open and an alarm signal of the PSU is generated in response to that. The OUT_ALARM terminal block is powered from rechargeable batteries in order to feed the external alarm unit. Thus, no additional supply circuit powered from another source is required for the alarm unit.

There is a circuit breaker to protect the PSU from any short circuit that may occur in the output circuit. If the PSU is switched off due to a short circuit, it will be necessary to eliminate the cause of such short circuit and switch the circuit breaker on.

5. Installation and Connection of the PSU

- 1) Install the PSU on a vertical bulkhead or on a mounting panel as shown in the dimensionand-installation drawing (Fig. 1). There are special holes in the PSU body to attach the PSU. The fasteners (such as screws and bolts) are fitted inside the body.
- 2) Connect cables of external devices and power supply sources to the PSU terminals as shown in Fig. 2.
 - 3) Switch on the PSU with the switch that is on the side panel of the body.
- 4) Make sure the PSU is working properly (feed output power to the equipment connected to the PSU).

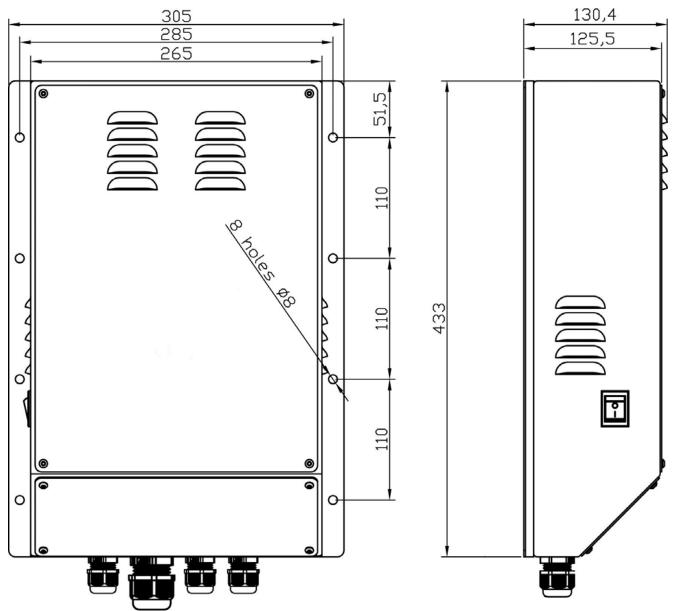


Figure 1. The PSU dimension-and-installation drawing

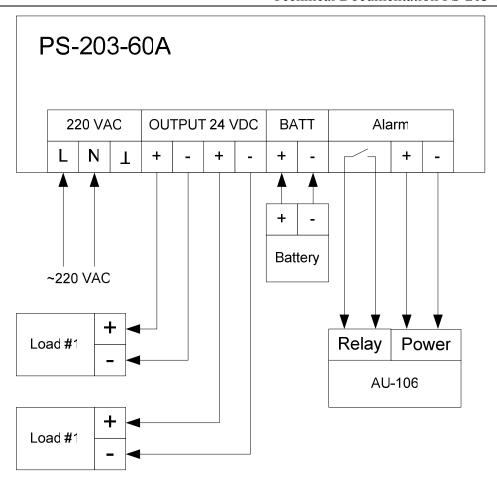


Figure 2. The PS-203-60A connection diagram

6. Warranty

The manufacturer guarantees the unit PS-203-60A complies with this manual provided that the operation, transportation and storage conditions are adhered to during the warranty period.

The unit's warranty period expires 24 months from the date of its shipping from the manufacturer's storehouse.

Within the warranty period, the owner is entitled for a free repair, or a replacement of a separate part, provided that the malfunction occurred through the manufacturer's fault.

Warranty repair is provided if the unit is submitted with the manufacturer's label and a legible serial number available on it, as well as this operating manual.

The manufacturer is not responsible and cannot guarantee the unit's operation:

- 1. After the warranty period is over;
- 2. In case of the failure to observe the unit's operation, transportation, storage and installation rules and conditions;
- 3. If the unit is in an unmarketable condition, or has a damaged body, and other causes beyond the manufacturer's control;
 - 4. If self-made electrical devices were used.
- 5. If there was an attempt to repair the unit by a person who is not an authorized representative of the manufacturer.

If the owner loses this operating manual or the manufacturer's label with a serial number, the manufacturer shall not provide their copies, and the owner shall be divested of the right for a free repair during the warranty period.

Upon the warranty expiry, the manufacturer shall facilitate the repair of the unit at the owner's expense.

Note: in case of warranty repair, the unit's disassembling from the installation site and its delivery to the manufacturer's service center are done at the owner's expense.

Visit the manufacturer's website www.unicont.spb.ru (section "support/warranty") to find:

- forms to fill in claims,
- full warranty description;
- full description of the warranty service rendering procedure.

The manufacturer service center's address and contact details: Unicont SPb, Ltd.

Bld. 26E Kibalchich Str., Saint Petersburg, 192174, Russia

tel.: + 7 (812) 622 23 10, +7 (812) 622 23 11

fax: +7 (812) 362 76 36

e-mail: service@unicont.spb.ru

7. DATE OF PACKING

Power Supply Unit	PS-203-60A	№		
name of article	designation	serial number		
Packed Unico	nt SPb Ltd., Russia.			
	Manufacturer			
according to the require	according to the requirements of the current technical documentation.			
post	signature	clarification of signature		
year, month, day	_			
8. ACCEPTANO	CE DETAILS			
Power Supply Unit	PS-203-60A	<u>№</u>		
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year, month, day 9. DATE OF CO	OMMISSIONING			
Power Supply Unit	PS-203-60A designation			
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The unit has been put into operation	1.			
Date of installation:				
Place of installation:				
Person in charge of installation:				