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1. Purpose

DC-DC converter DC-108 is inteded for power supply of different marine equipment with stabilized voltage 5/12/24 VDC (depends type of the device) and galvanic isolation of input and output circuits.

2. Delivery Set

Device DC-108
Operation manual
piece
piece

3. Techincal specifications

Available models

Model	Power	Max. Current Input Volta		Output Voltage	Eff.
12/5 - 50W			918 VDC		70%
24/5 - 50W		10 A	1936 VDC	5 VDC	73%
48/5 - 50W			3672 VDC		76%
12/12 - 50W			918 VDC		72%
24/12 - 50W	V 50 Watt		1936 VDC	12 VDC	75%
48/12 - 50W			3672 VDC		78%
12/24 - 50W		2,1 A	918 VDC		74%
24/24 - 50W			1936 VDC	24 VDC	80%
48/24 - 50W			3672 VDC		83%
24/12 - 150W	0W	12,5 A	1936 VDC		75%
48/12 - 150W			3672 VDC	12 VDC	77%
96/12 – 150W			72144 VDC	12 VDC	79%
90/12 – 130 W	150 Watt		85132 VAC		
24/24 - 150W	130 Wall	6,3 A	1936 VDC		77%
48/24 – 150W			3672 VDC	24 VDC	80%
96/24 – 150W			72144 VDC	24 VDC	82%
70/24 — 130 W				85132 VAC	

Device model specified on the plane (left side of a device case).

Isolation resistance: $100M\Omega@500VDC$

Type of protection: IP 22

Overall dimensions: 169 x 245 x 59,5 mm

Weight: 2 кг

Storage temperature: -30..+70°C Working temperature: -10..+60°C

- Galvanic isolation of a output power from a power line

- 2 plugs for loads connection (only for 150W models)

4. Device installation

DC-108 made in the metal case with fastening for installation on vertical wall inside of a ship. On the side wall of a case are power switch and fuse holder.

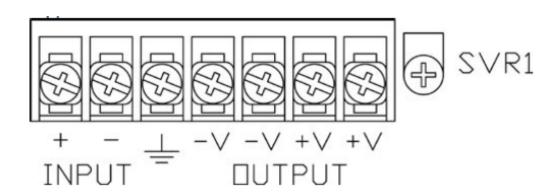
DC-108 consume 19-36(9-18/36-72) volts of a direct current and transform it in stabilized current of 24 VDC.

See installation dimensions on Figure 1.

Input power connect to terminals "+" and "-" of "INPUT" group.

Loads connect to terminals "+V" and "-V" of "OUTPUT" group.

Use trimming resistor SVR1 for tuning of output voltage, placed to the right of terminal block TB1.



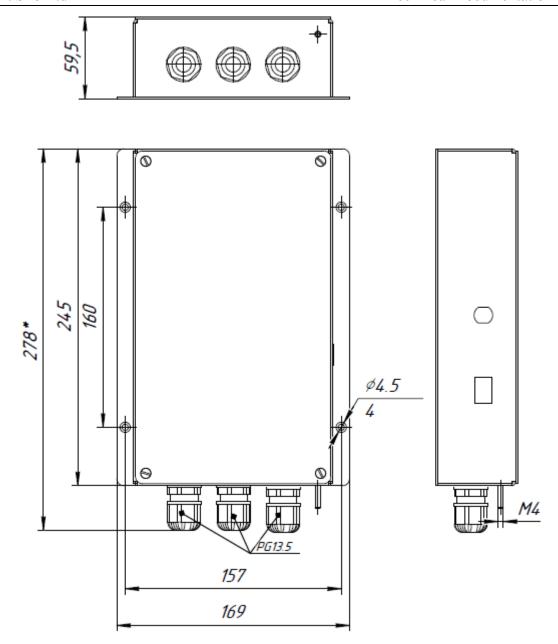


Figure 1 Installation dimensions DC-108.

5. Transportation and Storage

The battery charger shall be stored in heated space at air temperature of +5 °C to +35 °C (maximum values of -30 °C to +70 °C), at relative humidity of air not exceeding 95 % at temperature of +25 °C and content of dust, oil, moisture and aggressive admixtures in the air not exceeding the norms envisaged by GOST 12.1.005-88 for the working zone of production areas.

The device shall be transported in transport container of the manufacturer in closed transport.

Means of transport:

- automobile and railway closed transport (covered wagons, universal containers)
- by air (in pressurized and heated bays of airplane)
- by sea (in dry service spaces).

The device shall be transported in accordance with the transport regulations in force for the particular transport.

During handling operations and transportations strictly observe the requirements of handling marks on boxes and do not allow bumps and impacts which can affect preservation and serviceability of the device.

Packed devices shall be reliably secured in vehicles.

After storage in stores or transportation at temperature below +10 °C the devices shall be unpacked only in heated spaces after keeping them unpacked in under normal climatic conditions for 12 hours.

6. Warranty

The manufacturer guarantees the unit DC-108 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

DC-DC converter		DC-108	$N_{\underline{0}}$	№	
name of article		designation		serial number	
Packed	Unicor	nt SPb Ltd, Russia.		_	
		Manufacturer			
according	to the requirer	ments of the current tech	nnical docum	entation.	
post		signature	clarification of signature		
year, month	, day	-			
		CE DETAILS			
DC-DC co		DC-108 designation	<u>№</u>	serial number	
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Stamp here signature			clarification of signature		
			Cidiffication	n or signature	
ye	ar, month, day				
9. DA	TE OF CO	MMISSIONING			
DC-DC co		DC-108	№		
name of a	article	designation		serial number	
e unit has been put	into operation				
ate of installation:					
ace of installation:					
rson in charge of ir	nstallation:				