

Dometic SP230 Priority Switch



Dometic SP230 Priority Switch Instruction Manual

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Dometic SP230 Priority Switch



Product Information

Specifications

- Model: SP230
- Languages: EN, DE, FR, ES, PT, IT, NL, DA, SV, NO, FI, PL, SK,CS, HU, HR, TR, SL, RO, BG, ET, EL, LT, LV

Important Notes

1. The electrical power supply must be connected by a qualified electrician.
2. Find the installation and operating manual online on qr.dometic.com/be1v00.
3. Recycling packaging material: Place the packaging material in the appropriate recycling waste bins wherever possible.

Safety Instructions

The electrical power supply should only be connected by a qualified electrician who has demonstrated skill and knowledge related to the construction and operation of electrical equipment and installations. The electrician should also be familiar with the applicable regulations of the country in which the equipment is to be installed and/or used. Additionally, the electrician should have received safety training to identify and avoid hazards involved in the installation and operation of the priority switch.

Related Documents

The installation and operating manual can be found online at qr.dometic.com/be1v00.

Target Group

The priority switch is designed for use in recreational vehicles (RV) with two available voltage supplies.

Intended Use

The priority switch is used to distribute power supply in recreational vehicles (RV) with two available voltage supplies. It has two outputs: one for supplying power from the inverter and one for supplying power directly from the external 230V mains voltage.

Technical Description

The device operates automatically without the need for user handling. It detects power input and switches automatically when a change in the input supply is detected. The device has three LED indicators to show power supply: INVERTER OUTPUT MAIN 230V.

Disposal

When disposing of the product's packaging, please place the packaging material in the appropriate recycling waste bins whenever possible.

Product Usage Instructions

Installation

1. Contact a qualified electrician to connect the electrical power supply.
2. Refer to the installation and operating manual for detailed installation instructions.

Operation

The priority switch operates automatically and does not require any handling from the user. It detects the power input and switches automatically based on the available supply. The device monitors whether the external 230V mains voltage is available and supplies it directly to the 230V sockets. If the external 230V mains voltage is not present, the interior sockets are either supplied from the inverter or not at all, depending on which output connection is used.

LED Indicators

The priority switch has three LED indicators that show power supply:

- **Green LED indicator:** Indicates the voltage in from the inverter.
- **OUTPUT:** Indicates the voltage out on the OUTPUT connection.
- **MAIN 230V:** Indicates the voltage in from IN and OUT connections.

Frequently Asked Questions (FAQ)

Q: Can I install the priority switch myself?

A: The electrical power supply must be connected by a qualified electrician who has demonstrated skill and knowledge related to the construction and operation of electrical equipment and installations.

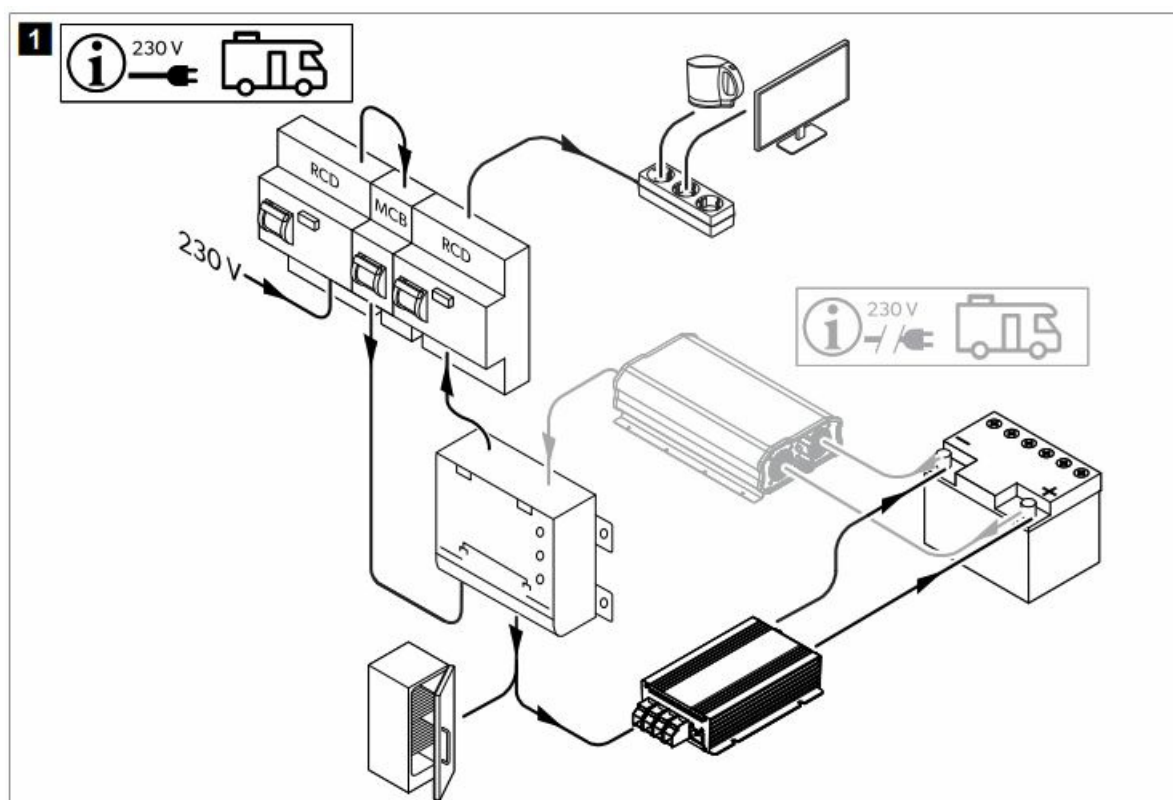
Q: How can I find the installation and operating manual?

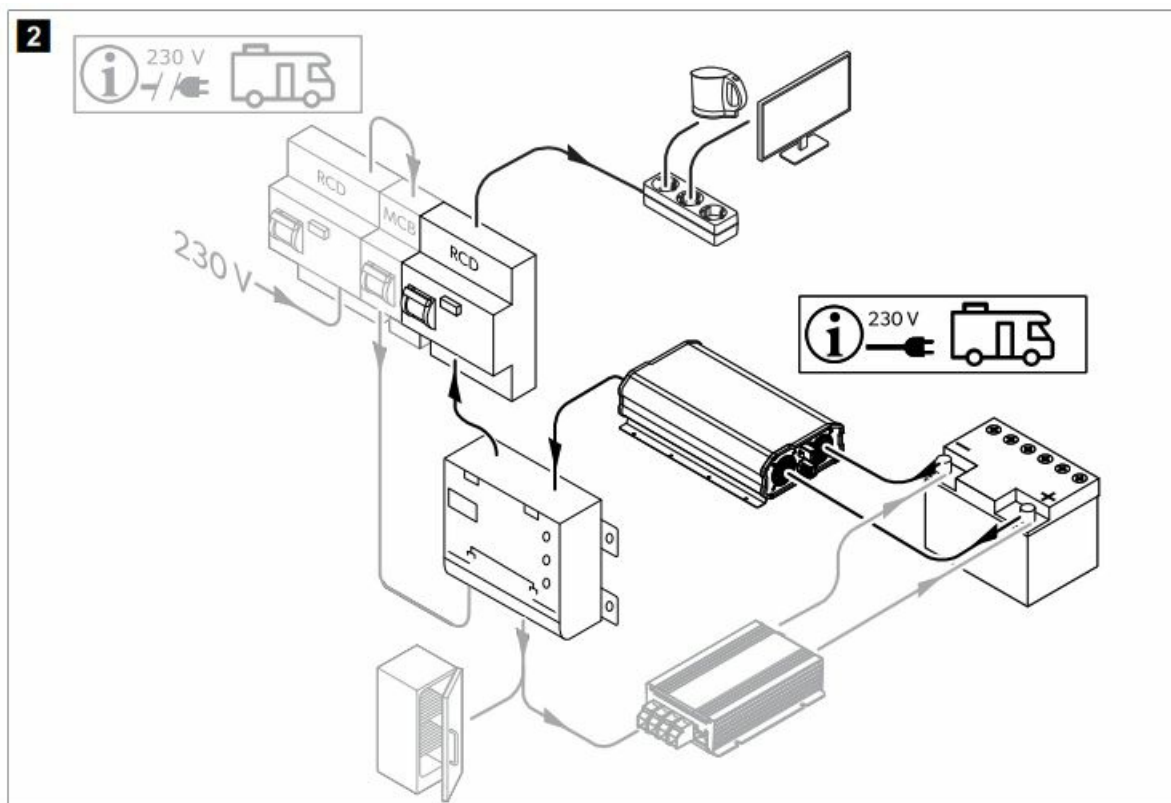
A: The installation and operating manual can be found online at qr.dometic.com/be1v00.

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List of Figures





Important notes

Please read these instructions carefully and follow all instructions, guidelines, and warnings included in this product manual in order to ensure that you install, use, and maintain the product properly at all times. These instructions **MUST** stay with this product.

By using the product, you hereby confirm that you have read all instructions, guidelines, and warnings carefully and that you understand and agree to abide by the terms and conditions as set forth herein. You agree to use this product only for the intended purpose and application and in accordance with the instructions, guidelines, and warnings as set forth in this product manual as well as in accordance with all applicable laws and regulations. A failure to read and follow the instructions and warnings set forth herein may result in an injury to yourself and others, damage to your product or damage to other property in the vicinity. This product manual, including the instructions, guidelines, and warnings, and related documentation, may be subject to changes and updates. For up-to-date product information, please visit documents.dometic.com.

Safety instructions

WARNING! Electrocution hazard, Fire hazard

- Installation, assembly, and wiring as well as all other work may only be performed by qualified electrical specialists. Inadequate repairs may cause serious hazards.
- Installation in potentially explosive areas such as rooms with flammable liquids or gases is not permitted.
- Do not install or keep the device near naked flames or other heat sources (heating, direct sunlight, gas ovens etc.).
- Always install and keep the device out of the reach of children.

NOTICE! Damage hazard

- Check that the voltage specification on the data plate corresponds to that of the energy supply.
- Never immerse the device in water.
- Protect the device and cables against heat and moisture.
- Do not expose the device to rain.

Related documents

Find the installation and operating manual online on qr.dometic.com/be1v00.



Target Group

The electrical power supply must be connected by a qualified electrician who has demonstrated skill and knowledge related to the construction and operation of electrical equipment and installations, and who is familiar with the applicable regulations of the country in which the equipment is to be installed and/or used, and has received safety training to identify and avoid the hazards involved.

Intended use

The priority switch is intended for distributing power supply in recreational vehicles (RV) with two available voltage supplies.

Two outputs are available:

- Electrical appliances that are used only when mains from grid is available.
- Electrical appliances that can be powered by both mains from grid and battery via an inverter.

The priority switch can be used according to the specified protection type after proper installation and cable routing with suitable cable diameters and external strain relief. The device is not suitable for outdoor use. This product is only suitable for the intended purpose and application in accordance with these instructions. This manual provides information that is necessary for proper installation and/or operation of the product. Poor installation and/or improper operating or maintenance will result in unsatisfactory performance and a possible failure.

The manufacturer accepts no liability for any injury or damage to the product resulting from:

- Incorrect installation, assembly or connection, including excess voltage
- Incorrect maintenance or use of spare parts other than original spare parts provided by the manufacturer
- Alterations to the product without express permission from the manufacturer
- Use for purposes other than those described in this manual

Dometic reserves the right to change product appearance and product specifications.

Technical description

If a mains voltage and voltage generated by the inverter (from a house battery) are both connected to the priority switch, the use of the mains voltage has priority. Fig. 1.

If only voltage generated by the inverter is available, the power supply from the battery is used. This ensures that the limited power of the battery is only used when necessary. This is true for all electrical devices connected to the OUTPUT connection of the priority switch.

Electrical devices such as refrigerators and battery chargers can be connected to only receive power output from the mains voltage, via the OUT connection. When no mains voltage input is available in IN, there is no power supply for OUT. Fig. 2.

It is recommended (but optional) to connect a battery charger to the OUT output to charge the battery when mains from grid is available.

Operation

The device operates without any handling from the user. The device detects power input and switches automatically as soon as a change of the input supply is detected. The monitoring automatically detects whether the external 230 V mains voltage is available and supplies it directly to the 230 V sockets. If the external 230 V mains voltage is not present, the interior sockets are either supplied from the inverter or not at all, depending on which output connection that is used.

Three LED indicators show power supply:

Green LED indicator	Description
INVERTER	Voltage in from the inverter.
OUTPUT	Voltage out on the OUTPUT connection.
MAIN 230V	Voltage in from IN and OUT connections.

Disposal

Recycling products with non-replaceable batteries, rechargeable batteries, or light sources:

- If the product contains any non-replaceable batteries, rechargeable batteries, or light sources, you don't have to remove them before disposal.
- If you wish to finally dispose of the product, ask your local recycling center or specialist dealer for details about how to do this in accordance with the applicable disposal regulations.
- The product can be disposed free of charge.

Recycling packaging material: Place the packaging material in the appropriate recycling waste bins wherever possible.

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A complete list of Dometic companies, which comprise the Dometic Group, can be found in the public filings of: DOMETIC GROUP AB Hemvärgatan 15 SE-17154 Solna Sweden

Documents / Resources



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SP230 Priority Switch, SP230, Priority Switch, Switch

References

- [User Manual](#)