



Instruction manual

Power supply unit CSV 300

CSV 300
CSV 300 2B10
CSV 300 2B13
CSV 300-3

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1 Introduction

This instruction manual contains important information for the safe operation of the power supply unit. It is essential to read and to follow the given safety information.

The instruction manual should always be kept in the motorhome/caravan. All safety information must be passed on to other users.



- ▲ Failure to comply with this sign may lead to the endangerment of persons.



- ▲ Failure to comply with this sign may damage the device or the connected consumers.



- ▲ This sign indicates recommendations or special features.

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2 Safety information

The design of the power supply unit is state-of-the-art and according to approved safety technology. Nevertheless, if the safety information in this instruction manual is not closely followed, persons might be injured or the power supply unit might be damaged.

Do not use the power supply unit if it is not in technically good condition. The instruction manual must be followed.

Any technical faults affecting the safety of persons or of the power supply unit must be dealt with immediately by qualified personnel.



- ▲ The electrical system of the motorhome or the caravan has to meet current DIN, VDE and ISO regulations. Manipulations of the electrical system will endanger the safety of persons and the vehicle, and are therefore prohibited.
- ▲ Never make any modifications to the power supply unit.
- ▲ The electrical connection may only be established by qualified personnel and must be carried out according to the Schaudt installation instructions.
- ▲ Connection work is to be carried out in tensionless condition only.
- ▲ Risk of fatal injury due to electric shock or fire in the case of a defective mains cable or incorrect connection!
- ▲ Connect the power supply unit to the 230 V mains in compliance with national installation regulations.
- ▲ Risk of fatal injury!
Never perform maintenance on the power supply unit when it is live.
- ▲ Blown fuses must only be replaced when the cause of the fault is known and eliminated.



- ▲ Never bridge or repair fuses.
- ▲ Danger of burning! Blown fuses must only be changed on a zero-current power supply unit.
- ▲ Only use original fuses rated as specified in the instruction manual.
- ▲ Danger of burning! During operation the power supply unit gets hot. Do not touch.
- ▲ There must be no cables laid underneath the power supply unit due to the development of heat.



- ▲ To avoid voltage peaks during warm-up, do not connect the generator until it is running in a stable manner. Otherwise, the power supply unit, the 12 V consumers or other connected equipment might get damaged. It is essential that the generator complies with the mains supply specifications.
- ▲ The mains supply on board car ferries might not always be perfect. Therefore, never connect the power supply unit to the mains on car ferries. Otherwise, the power supply unit, the 12 V consumers or other connected equipment might get damaged.
- ▲ During operation the power supply unit gets hot. If the power supply unit is installed in the wardrobe, do not hang up any temperature sensitive clothes near it.

3 Description and appropriate use

The power supply unit CSV 300 is designed for permanent installation in caravans. The power supply unit powers 12 V devices such as fans, submersible pumps and lamps, while the caravan is connected to the 230 V mains.

If there is no 230 V mains power supply, the connected devices can be powered by the 12 V supply of the towing vehicle.

The system automatically switches to mains operation if there is a 230 V mains power supply.

The power supply unit consists of:

- The power supply module
- The 12 V distribution
- Fuses for the 12 V circuits

The power supply unit is a primary controlled switch-mode power supply. This modern switching technology achieves high output current at a compact size and low weight.

The power supply unit is designed for use in caravans with no living area battery of their own and can therefore not be used for charging batteries.

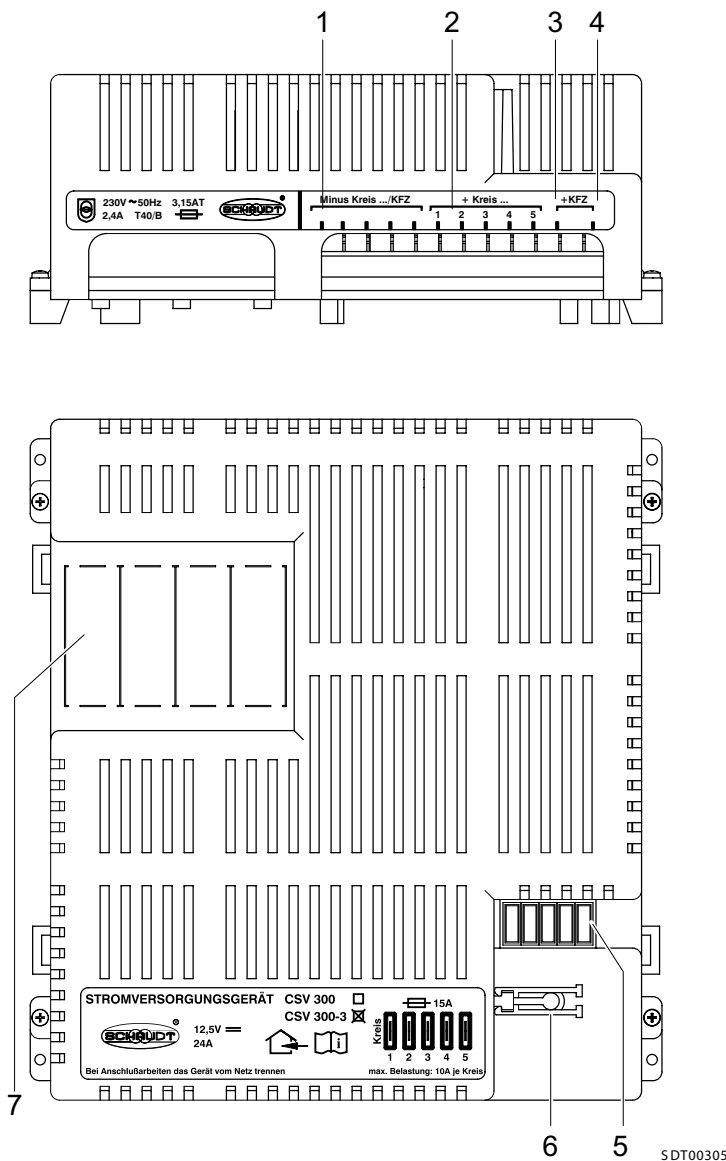


Fig. 1 Power supply unit CSV 300, CSV 300 2B10, CSV 300 2B13 and CSV 300-3

- 1 Negative 12 V outputs, circuits 1 to 5
- 2 + 12 V outputs, circuits 1 to 5
- 3 + 12 V Car battery/tow bar
- 4 + 12 V Car battery/tow bar
- 5 Flat vehicle fuses
- 6 Fuse puller
- 7 Spaces for circuit breakers

12 V output circuits If the power supply unit is only powered with 12 V by the starter battery of the towing vehicle without any connection to the 230 V mains, the following 12 V outputs are powered:

CSV 300 Circuits 1 to 5 are powered
CSV 300 2B10
CSV 300 2B13
CSV 300-2 Circuits 1 to 4 are powered
 Circuit 5 is not powered

4 Electrical data

Mains connection 230 V AC \pm 10 %, 47 to 63 Hz sinusoidal, protection class I

Current consumption 2.4 A

Fuses on the 12 V outputs Flat vehicle fuses 15 A

5 Operation

Flat vehicle fuses



- ▲ Blown fuses must only be replaced when the cause of the fault is known and eliminated.
- ▲ Never bridge or repair fuses.
- ▲ Danger of burning! Blown fuses must only be changed on a zero-current power supply unit.
- ▲ Only use original fuses rated as specified in the instruction manual.

The flat vehicle fuses protect the various 12 V outputs.

The full nominal load can only be used permanently at a device temperature of 23 °C. The outputs may therefore only be powered using maximum 10 A.

A tool for replacing the flat vehicle fuses (fuse puller) is attached next to the vehicle flat fuses.

Change-over relay A change-over relay is installed in the power supply unit.

The change-over relay interrupts the connection to the starter battery when the caravan has a 230 V mains power supply. If there is no 230 V mains power supply, the 12 V consumers are powered by the starter battery of the towing vehicle.



- ▲ If the engine of the towing vehicle is switched off and if the caravan is not connected to the 230 V mains, any 12 V consumers which are switched on may discharge the starter battery of the towing vehicle.

6 Maintenance

The power supply unit requires no maintenance.

- Cleaning** Clean the power supply unit with a soft, slightly damp cloth and mild detergent.
 Never use spirit, thinners or similar substances.
 Do not allow fluid to penetrate the inside of the power supply unit.

7 Shutting down

If you are not going to use the caravan for a lengthy period (for example over the winter), disconnect the caravan from the mains power supply or switch the mains fuse of the caravan to "Off".

8 Technical faults, possible causes and remedies

If you are unable to solve a fault using the following tables, please contact our customer service address.

If this is not possible, e.g. if you are abroad, you can have the power supply unit repaired at a specialist workshop.

Inexpert repairs invalidate the guarantee for the power supply unit and Schaudt GmbH takes no liability for any resulting damage.

Fault	Possible cause	Remedy
All connected consumers are not powered	No mains voltage	Switch on the automatic fuse in the vehicle
		Have the mains voltage checked
Some consumers are not powered	No connection to the towing vehicle	Insert connector plug into the towing vehicle
	12 V fuse has triggered	Check the 12 V fuse



- ▲ If the device becomes too hot due to excessive ambient temperature or lack of ventilation, the output current is automatically reduced. However, always prevent the device from overheating.

9 Customer service

Customer service address Schaudt GmbH, Elektrotechnik & Apparatebau
Planckstraße 8
88677 Markdorf
Germany
Phone: +49 7544 9577-16
Email: kundendienst@schaudt-gmbh.de
Opening hours Mon to Thu 8 to 12 a.m., 1 to 4 p.m.
Fri 8 to 12 a.m.

Sending in the device Returning a defective device:

- Always use well-padded packaging.
- Fill in and enclose the fault report, see section 12.
- Send it to the addressee delivered free.

Disposal instruction When the product service life is over, dispose of the device in accordance with the applicable regulations.

10 EG Conformity Declaration

Schaudt GmbH hereby confirms that the CSV 400-1 A caravan power supply design complies with the relevant regulations.

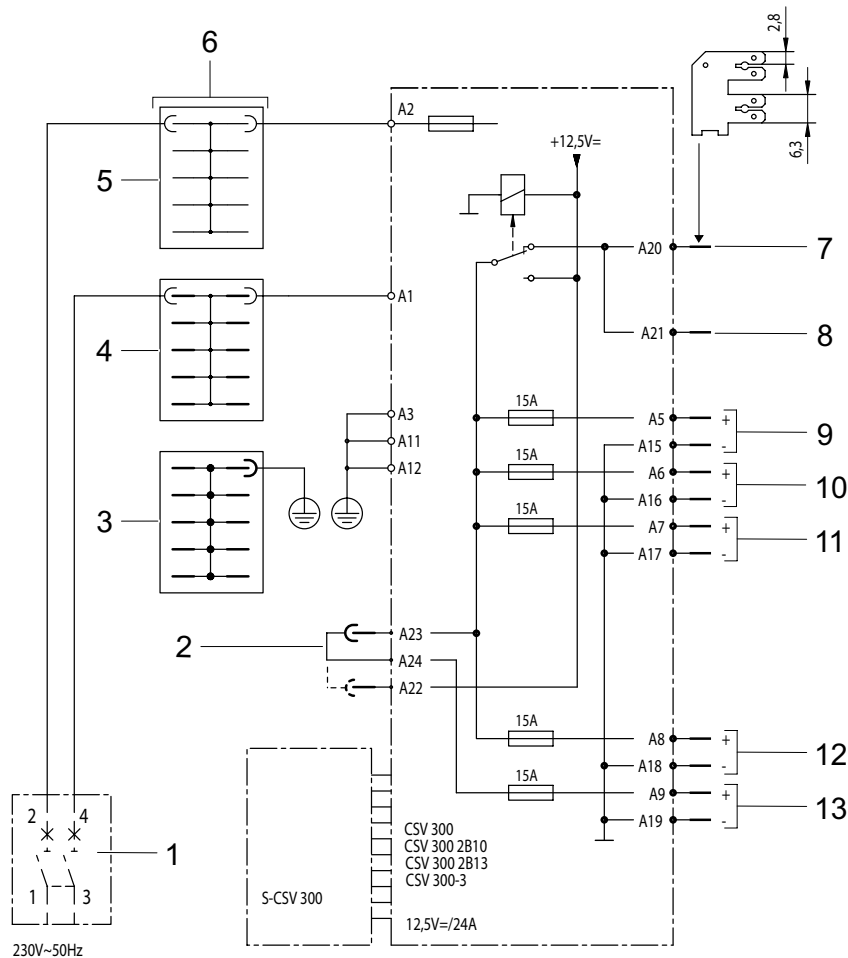
This declaration is based on:

Type approval of "Kraftfahrt-Bundesamt"
(German Federal Motor Transport Authority)
Type approval no.: e1*72/245*2006/28*5758*00
EC approval no.: e1 03 5758

The original EU conformity declaration is available and can be referred to at any time.

Manufacturer Schaudt GmbH, Elektrotechnik & Apparatebau
Address Planckstraße 8
88677 Markdorf
Germany

11 Block diagram - for specialist workshop only



SDT00306

Fig. 2 Block diagram supply unit CSV 300, CSV 300 2B10, CSV 300 2B13 and CSV 300-3

- 1 Double circuit breaker (CSV 300 2B10: 10 A, CSV 300 2B13: 13 A)
- 2 Jumper:
A22 - A24: Circuit 5/awning light supplied only by mains
A24 - A23: Circuit 5/awning light supplied by vehicle battery too
- 3 Protective earth conductor, yellow/green
- 4 Neutral conductor, blue
- 5 External conductor, brown
- 6 230 V mains output, 8 outputs free, 3 x plug distributor 6.3 x 0.8 (10 x)
- 7 Vehicle battery/tow bar (ext. fuse max. 15 A)
- 8 Vehicle battery/tow bar (ext. fuse max. 15 A)
- 9 12 V output, circuit 1
- 10 12 V output, circuit 2
- 11 12 V output, circuit 3
- 12 12 V output, circuit 4
- 13 12 V output, circuit 5/awning light

12 Fault report

In the event of damage, please return the defective device together with the completed fault report.

Device type: CSV 300 CSV 300 2B10 CSV 300 2B13 CSV 300-3
Type no.: 905.030 905.031 905.032 905.036
(please delete
whatever does
not apply)

There is the following defect:
(please tick)

The following electrical consumers do not work:	<input type="checkbox"/>
Constant fault	<input type="checkbox"/>
Temporary fault/loose contact	<input type="checkbox"/>

Other remarks:

