



STATRON
Gerätetechnik GmbH



Operating manual

Type 5311.1 transformer



Use of the power supply unit as agreed contains:

The connection and business of low voltage consumers with an operating voltage between 0 and 30 V direct voltage. The current consumption of the consumer mustn't exceed 10 A.

Respect! Read absolutely!

These read through these instructions exactly. The right to claim under guarantee dies at damages which are caused by nonobservance of the instructions. For resultant damages we don't assume any liability.

1. general specification

This power supply unit is of tension with his direct one moving possibilities and current is universally usably for industry, research and education.

2. safety considerations

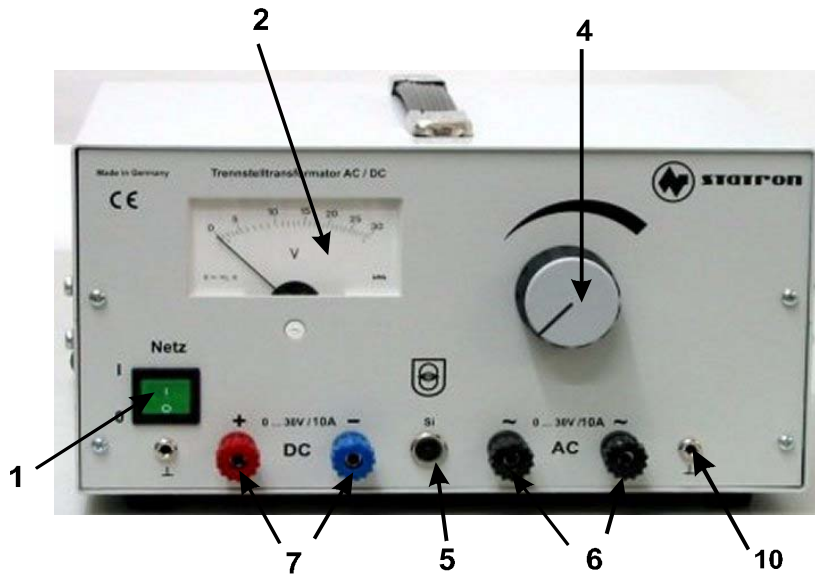
- 2.1 The power supply unit is built up in safety class I as well as in accordance with VDE 0411 and VDE 0805/DIN EN 60950. The net transformer is built up after DIN VDE 0551/DIN EN 60742 as safety separating transformer and is checked with 3.75 kVeff primarily/secondarily. It is 0875th it is equipped with a VDE checked mains power line with protection leader and may be operated or attached only at 230-V alternating voltage nets with protective earthing therefore radio suppressed in accordance with VDE.
- 2.2 It has to be respected on this that the protection leader is interrupted (yellowly/green) neither in the mains power line nor in the piece of equipment or in the net since with interrupted protection leader there is serious danger. It has to be respected on this furthermore that the insulation is neither damaged nor destroyed.
- 2.3 **power supply units don't belong child hands in!**
- 2.4 The accident prevention regulations of the association of the commercial Berufsgenossenschaften have to be observed for electrical plants and operating supplies in commercial facilities.
- 2.5 Operating power supply units by trained staff is responsible to supervise to hobby and alone help workshops in schools, education facilities.
- 2.6 Open of shutters or remove of parts at this, unless if this is possible by hand, voltage-carrying parts can be exposed. Junctions also can be voltage-carrying. The piece of equipment must be separated from all voltage sources in front of a comparison, a maintenance, an overhaul or an exchange of parts, if a opening the piece of equipment is required. After one, at the open piece of equipment under tension unavoidably is comparison, a maintenance or a repair, may happen only by a qualified employee which is familiar with the thus obliged dangers or the appropriate regulations for this this if.
- 2.7 Condensers in the piece of equipment still can be loaded even if the piece of equipment was separated from all voltage sources.
- 2.8 It has to be guaranteed that only safeguardings of Nennstromstärke said the given type and this one are used as a substitute. The use of mended safeguardings or bridging of the fuseholder are inadmissible. The piece of equipment is overtaxing safe and short-circuit protected. There is a grave fault to Abschmelzen of the initial safeguarding which must be removed by a qualified employee before the new intact safeguarding can be used by this qualified employee.
- 2.9 Never switch your power supply unit on immediately, if it is taken to a warm room from a cold, then. The condensation arising at dewfall can destroy your piece of equipment under unfavorable circumstances. Let the piece of equipment uneingeschaltet on room temperature come.
- 2.10 At works with power supply units carrying is forbidden to rings by metallic or conductive jewelry like chains, bracelets, or the like.
- 2.11 Power supply units aren't allowed for the application at people or animals.
- 2.12 Critical tensions (> 35 VDC) are caused at the series connection of the exits of one or several power supply units.
- 2.13 Ventilation slits of power supply units may not be covered! The pieces of equipment have to be moved to hard, heavily inflammable documents so that the air can unhinderedly enter the pieces of equipment. The cooling of the pieces of equipment is made by forced ventilation.
- 2.14 Power supply units and the attached consumers may not be operated for unbeaufsichtigt. It is (measures z to the protection and the safeguarding of the attached consumers opposite effects of the power supply units. B. overloads, failure of the power supply unit) and meet effects and going out dangers (e.g. inadmissibly high current consumption) of the consumers this one.
Respect! Sensitive consumers must in addition be protected from destruction by external measures!
- 2.15 In the fault case power supply units can give V direct voltage to tensions over 50 of which dangers start out, also then if the given output voltages of the pieces of equipment lie more lowly.
- 2.16 At works under tension tool only allowed particularly for this may be used.
- 2.17 (the exits of the power supply units/and lines attached to this must be protected from direct touch output jacks-stick). The used lines must have a sufficient isolation or tension strength and be touch sure the contact points (safety sockets) to this.
- 2.18 Transferring metallicly shiny lines and contacts has to be avoided. All these places have to be covered by suitable, heavily inflammable insulants or other measures and protected which from direct touch. The electrically leading parts of the attached consumers also have to be protected from direct

touch by corresponding measures.

2.19 To be assumed has that a safe business is no longer possible, it is to put apart from business and to safeguard against unintentional business the piece of equipment so if. It has to be assumed, that a safe operating no longer possible if:

- the piece of equipment or the power cord shows visible damages --
- the piece of equipment doesn't work -- any more
- after longer storage under unfavorable conditions
- after heavy transport uses

3. Operation



the input voltage 230V/50 Hertz is via the internal fuse Si1 plus the illuminated mains switch (1) to transformer (4) put. In parallel to the transformer becomes a the voltage for the transformer T2 worn out. Via the transformer T2 (Bv 5311-1) takes place the galvanic separation from the net and the provision of the galvanic separated output voltage. Of the built in bridge rectifier are the ac voltages from the transformer 2 aligned and the capacitor C 1. smoothed. The ac voltages can to clamps (6) and to clamps (7) dc voltage. The GND_connector (10) are with that of the enclosures connected. The thermal cutout (5) shields the appliance fore overcharges.

4. opening work

before switch on is to check out, whether the cutout (5) pressed is. After that can the appliance becomes a associate to the mains plug St 1 at a earthing contact socket 230V/50 Hertz connected will. Thereby it must be observed, that the mains cable thus mislays will, that a damage the cable plus uni- pull down of the apparatus prevents will. With that of the mains switch S1 (1) becomes a the appliance switched on and is immediately ready for operation.

With that of the regulator transformer T1(4) can a AC- output voltage of 0-30 V /max. 10A or 0-30V/10A dc voltage discontinued will. The decay the alternating voltages takes place of the black sockets (6). The dc – output voltage will also coincident with to the regulate transformer T1(four) intermediate 0-30 V/max. 10A discontinued plus to sockets red/blue (7) taken off.

Attention ! It I am allowed respective just a output respectively. Source charged will.

5. error and removal

the debugging by the customers runs down merely at the exchange the fuses. Repairs will by the maker carried out.

6. technical data

spezification	5311.1	
	AC	DC
* Output voltage	0-30V	0-30V
*Output current	10A	10A
Measurements (B x H x T)	260 x140x250 mm	
Weight	12 kg	
Operating voltage	230V +6% / -10% 50Hz	
Display analog	Voltage DC	Voltage DC
Tension stability +6/-10% net fluctuation	Non stabilized	
Burden end rope at 100% burden change	Non stabilized	
ripple	Non stabilized	
Safety class	I	
colour	RAL 7035/7036	
Protection degree	IP 30	
connection input	cable	
High voltage test	input-GND 1,5kV;input-output 1,5kV;output-GND 500V	
Business temperature area	0-50°C	
relative atmospheric humidity	90% (35°C)	

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