

Compact power supplies up to 150 W

TOE 8721
TOE 8722



TOE 8721 – single-output power supply

The low-price compact power supplies of the TOE 8721 series

are suitable for general laboratory purposes as well as for loads with a pulsed current consumption.

The TOE 8721-2, 8721-3 and 8721-4 versions additionally enable a current consumption increased by up to 50 % for approx. 15 minutes. As a result of the delayed current limiting function, current pulses can be drawn from these models up to several times the rated current for several ms.

The output voltage and output current are indicated on highly precise 3½-digit LCDs. The output voltage is set using a high-resolution ten-turn potentiometer.

The practice-oriented dual-output power supplies of the TOE 8722 series have output powers of 72 W

The outputs are independent of one another; the voltages are adjusted using precision ten-turn potentiometers and the currents using stable single-turn potentiometers.

Two selectable 3½-digit LCDs indicate the output values.

Special features

- Single-output and dual-output power supplies
- Output power up to 216 W
- Precise 3½-digit LCDs for current and voltage
- Low price, high-quality properties and details
- ½ 19" width, 3 HU design
→ parallel installation possible
- Can be used as constant voltage and constant current source (CV/CC)
- Measurement of output voltage and output current
- Electrical Insulation of the sources
→ outputs of the dual-output power supplies can be connected in series or parallel
- Polarity reversal protection, resistant to reverse current
- No switch-on and switch-off peaks, no transients

Overview

Model	Output 1		Output 2		Power
	Voltage	Current	Voltage	Current	
Single-output power supplies					
TOE 8721-1	0-36 V	0-2 A	–	–	72 W
TOE 8721-2	0-10 V	0-10 A/12 A	–	–	100/120 W
TOE 8721-3	0-18 V	0-8 A/12 A	–	–	144/216 W
TOE 8721-4	0-36 V	0-4 A/6 A	–	–	144/216 W
Dual-output power supplies					
TOE 8722-1	0-18 V	0-2.0 A	0-18 V	0-2.0 A	72 W
TOE 8722-2	0-36 V	0-1.0 A	0-36 V	0-1.0 A	72 W
TOE 8722-4	0-24 V	0-1.5 A	0-24 V	0-1.5 A	72 W



TOE 8722

Technical specifications

TOE 8721 to TOE 8722

Model	TOE 8721-1	TOE 8721-2	TOE 8721-3	TOE 8721-4	TOE 8722-1	TOE 8722-2	TOE 8722-4
Output voltage	0 - 36 V	0 - 10 V	0 - 18 V	0 - 36 V	2 x 0 - 18 V	2 x 0 - 36 V	2 x 0 - 24 V
Setting resolution	0.02 %	0.02 %	0.02 %	0.02 %	0.02 %	0.02 %	0.02 %
Setting accuracy	± (0.5 % + 2 digits)	± (0.1 % + 2 digits)	± (0.1 % + 2 digits)	± (0.5 % + 2 digits)	± (0.2 % + 2 digits)	± (0.5 % + 2 digits)	± (0.5 % + 2 digits)
Display resolution	100 mV	10 mV	10 mV	100 mV	10 mV	100 mV	100 mV
Output current	0 - 2 A	0 - 10 A	0 - 8 A	0 - 4 A	2 x 0 - 2 A	2 x 0 - 1 A	2 x 0 - 1.5 A
Setting resolution	0.5 %	0.5 %	0.5 %	0.5 %	0.5 %	0.5 %	0.5 %
Setting accuracy	± (0.5 % + 2 digits)	± (0.5 % + 2 digits)	± (0.5 % + 2 digits)	± (0.5 % + 2 digits)	± (0.5 % + 2 digits)	± (0.5 % + 2 digits)	± (0.5 % + 2 digits)
Display resolution	10 mA	10 mA	10 mA	10 mA	10 mA	10 mA	10 mA
Output current for max. 15 minutes	–	0 - 12 A	0 - 12 A	0 - 6 A	–	–	–
Current pulse for a few ms	–	Approx. 20 A	Approx. 16 A	Approx. 8 A	–	–	–
Output power	72 W	100 W	144 W	144 W	72 W	72 W	72 W
Voltage stabilization							
With change in load 0 % to 100 %	0.05 %	0.02 %	0.05 %	0.05 %	0.02 %	0.02 %	0.02 %
With change in line voltage ± 10 %	10 ⁻⁴	10 ⁻⁴	10 ⁻⁴	10 ⁻⁴	10 ⁻⁴	10 ⁻⁴	10 ⁻⁴
With change in temperature	10 ⁻⁴ /K	10 ⁻⁴ /K	10 ⁻⁴ /K	10 ⁻⁴ /K	10 ⁻⁴ /K	10 ⁻⁴ /K	10 ⁻⁴ /K
Residual ripple V _{pp}	0.2 mV	0.2 mV	0.2 mV	0.2 mV	0.2 mV	0.2 mV	0.2 mV
Drift within 8 hours	0.02 %	0.02 %	0.02 %	0.02 %	0.02 %	0.02 %	0.02 %
Regulation time with change in load from 20 to 100 % and setting to within 0.1 % V _{rated}	100 µs	100 µs	100 µs	100 µs	50 µs	50 µs	50 µs
Current stabilization							
With change in load 0 % to 100 %	0.02 %	0.02 %	0.02 %	0.02 %	0.02 %	0.02 %	0.02 %
With change in line voltage ± 10 %	10 ⁻⁴	10 ⁻⁴	10 ⁻⁴	10 ⁻⁴	10 ⁻⁴	10 ⁻⁴	10 ⁻⁴
With change in temperature	10 ⁻³ /K	10 ⁻³ /K	10 ⁻³ /K	10 ⁻³ /K	10 ⁻³ /K	10 ⁻³ /K	10 ⁻³ /K
Residual ripple I _{rms}	0.5 mA	3 mA	3 mA	2 mA	0.2 mA	0.2 mA	0.2 mA
Drift within 8 hours	0.2 %	0.2 %	0.2 %	0.2 %	0.2 %	0.2 %	0.2 %
Dimensions (W x H x D) in mm	215 x 147 x 270	215 x 147 x 320	215 x 147 x 320	215 x 147 x 320	215 x 147 x 270	215 x 147 x 270	215 x 147 x 270
Weight	5.5 kg	7.5 kg	7.5 kg	7.5 kg	5.5 kg	5.5 kg	5.5 kg

Line voltage: 115/230 V ± 10 % 47 Hz to 63 Hz, operating temperature: 0 °C to 40 °C, housing: metal

Options

Ten-turn potentiometer for current setting	TOE 9008	Carrying handle
TOE 8720/201 Single-output power supply	TOE 9502	19" adapter, 3 HU for single installation
TOE 8720/202 Dual-output power supply	TOE 9508	19" adapter, 3 HU, parallel installation set for 2 units

Supplied accessories

- 1 power cord
- 1 instruction manual

Ordering data

Single-output power supplies

TOE 8721-1	Power supply 36 V / 2 A
TOE 8721-2	Power supply 10 V / 10 A
TOE 8721-3	Power supply 18 V / 8 A
TOE 8721-4	Power supply 36 V / 4 A

Dual-output power supplies

TOE 8722-1	Power supply 2 x 18 V / 2.0 A
TOE 8722-2	Power supply 2 x 36 V / 1.0 A
TOE 8722-4	Power supply 2 x 24 V / 1.5 A