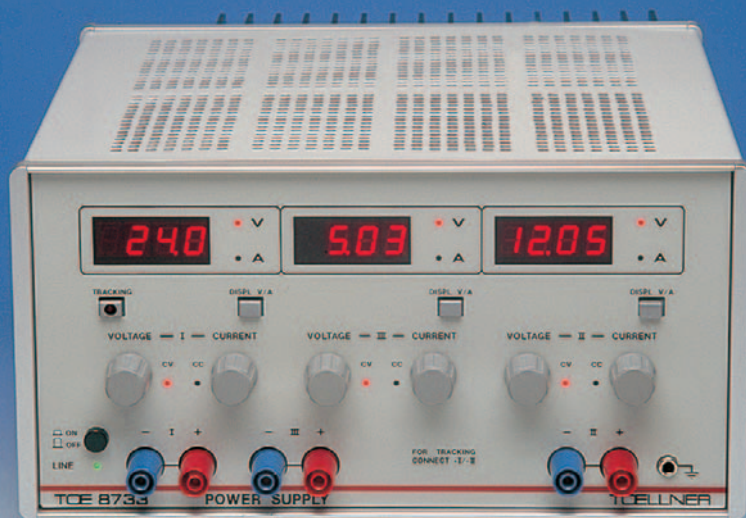


Multiple-output power supplies up to 150 W from TOELLNER®

TOE 8430 / TOE 8730 series



Dual-output power supplies

The **8432 series** offer two absolutely identical supply units in a single cabinet. The outputs are electrically isolated from each other and floating. They can be easily connected either in parallel or in series, and are additionally provided with a tracking facility that allows output II to be synchronized by output I. The two power supplies then provide a positive voltage and a negative voltage compared to the common reference point. Current limits for the two outputs can be set independently of each other.

The design of the **8732 series** dual power supplies is based on the same proven basic concept as that of the 8432 series. They are, however, equipped with three digital displays as standard, and allow external voltage measurement in the ranges 0 to 20 V and 0 to 200 V. The voltages at outputs I and II are measured with autoranging. Up to 19.99 V, the resolution is 10 mV; above 20.0 V, the resolution is 100 mV.

The outputs I and II can be optionally adjusted by means of an external control voltage (0 to 10 V) via an analog control input.
(Option: TOE 8730-252)

Triple-output power supplies

The **8433 series** have three independent floating outputs. The 16 V, 32 V and 48 V outputs are mainly intended to supply linear circuits. The output voltage and output current are adjustable using ten-turn potentiometers. A tracking facility is provided. The 0 to 7 V output has a current rating of 3 A as standard (5 A as option) and is chiefly intended for supplying digital circuits. The output is provided with current-limit control with a foldback characteristic.
(Option: TOE 8430-201)

The **8733 series** power supplies also have three independent floating outputs like the 8433 series, but the third output is fully variable over a range of 0 to 7 V and 0 to 5 A. Furthermore, the 8733 series provides three digital displays as standard. The voltages at outputs I and II are automatically displayed with a resolution of 10 mV up to 19.99 V and a resolution of 100 mV above 20.0 V. The current and voltage of outputs I, II and III can be optionally set by an external control voltage (0 to 10 V).
(Option: TOE 8730-253)

Quintuple-output power supply

The **TOE 8435** power supplies have five independent floating outputs. Of these, two are fully adjustable constant voltage and constant current outputs, one is a 0 to 7 V output with a current rating of 3 A (5 A as option), and one is a symmetrical fixed voltage output*. Whereas the 0 to 7 V output is generally used to supply digital circuits, the fixed voltage output can be used to supply bipolar or CMOS circuits.

The **TOE 8735** power supplies have five independent floating outputs. The 16 V and 32 V outputs are mainly used to supply linear circuits, the 7 V output chiefly serves to supply digital systems. The symmetrical fixed voltage output* can be used to supply bipolar or CMOS components. The 16 V and 32 V output are provided with a tracking facility. The output values are displayed on three selectable 3½-digit LCDs; the max. resolution is 10 mV or 1 mA. The current and voltage of outputs I, II and III can be optionally set by an external control voltage (0 to 10 V) via an analog control input.
(Option: TOE 8730-253)

* The fixed voltage output ± 15 V can be switched internally to ± 12 V.

Ordering data:

Power supply	TOE 8432-X
Power supply	TOE 8433-X
Power supply	TOE 8435-X
Power supply	TOE 8732-X
Power supply	TOE 8733-X
Power supply	TOE 8735-X

Options

7 V / 5 A output	TOE 8430-201
Analog remote control	TOE 8730-252
Analog remote control	TOE 8730-253

Specifications

Dual-output power supplies from TOELLNER®

TOE 8432 / 8732

Dual-output power supplies up to 80 W						
Model TOE	8432-1	8432-2	8432-3	8732-1	8732-2	8732-3
Outputs	2	2	2	2	2	2
Voltage	2 x 0 ... 16 V	2 x 0 ... 32 V	2 x 0 ... 48 V	2 x 0 ... 16 V	2 x 0 ... 32 V	2 x 0 ... 48 V
Current	2 x 0 ... 2 A	2 x 0 ... 1 A	2 x 0 ... 0.8 A	2 x 0 ... 2 A	2 x 0 ... 1 A	2 x 0 ... 0.8 A
Output power	64 W	64 W	76 W	64 W	64 W	76 W
Display	analog	analog	analog	digital	digital	digital
Remote control (option)	-	-	-	yes	yes	yes
Constant voltage mode						
Adjustment using 10-turn potentiometer; resolution	0.02 %	0.02 %	0.02 %	0.02 %	0.02 %	0.02 %
Voltage regulation						
With change in load 0 - 100 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
With change in mains voltage $\pm 10\%$	10^{-5}	10^{-5}	10^{-5}	10^{-5}	10^{-5}	10^{-5}
With change in temperature	$10^{-4}/K$	$10^{-4}/K$	$10^{-4}/K$	$10^{-4}/K$	$10^{-4}/K$	$10^{-4}/K$
Residual ripple V_{rms}	50 μV	50 μV	50 μV	50 μV	50 μV	50 μV
Drift within 8 hours	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
Regulation time for a load transition from 20 to 100 % and setting to within 0.1 % of rated voltage						
	10 μs	10 μs	10 μs	10 μs	10 μs	10 μs
Constant current mode						
Adjustment using 10-turn potentiometer; resolution	0.04 %	0.04 %	0.04 %	0.04 %	0.04 %	0.04 %
Current regulation						
With change in load 0 - 100 %	0.02 %	0.02 %	0.02 %	0.01 %	0.01 %	0.02 %
With change in mains voltage $\pm 10\%$	10^{-5}	10^{-5}	10^{-5}	10^{-4}	10^{-4}	10^{-4}
With change in temperature	$10^{-4}/K$	$10^{-4}/K$	$10^{-4}/K$	$10^{-4}/K$	$10^{-4}/K$	$10^{-4}/K$
Residual ripple I_{rms}	50 μA	50 μA	20 μA	50 μA	20 μA	20 μA
Drift within 8 hours	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
Current consumption (A) at 230 V / 50 Hz	0.7	0.7	0.8	0.7	0.7	0.8
Weight	8.2 kg	8.2 kg	8.2 kg	8.4 kg	8.4 kg	8.4 kg
Mains voltage: 115/230 V $\pm 10\%$, 48 - 60 Hz, operating temperature: 0 - 40 °C, housing: metal						

Specifications

Triple-output power supplies from TOELLNER®

TOE 8433 / 8733

Triple-output power supplies up to 150 W							
Model TOE	8433-1	8433-2	8433-3	8733-1	8733-2	8733-3	8733-4
Outputs	3	3	3	3	3	3	3
Voltage	2 x 0 ... 16 V 0 ... 7 V	2 x 0 ... 32 V 0 ... 7 V	2 x 0 ... 48 V 0 ... 7 V	2 x 0 ... 16 V 0 ... 7 V	2 x 0 ... 32 V 0 ... 7 V	2 x 0 ... 48 V 0 ... 7 V	2 x 0 ... 32 V 0 ... 7 V
Current	2 x 0 ... 2 A 0 ... 3 A	2 x 0 ... 1 A 0 ... 3 A	2 x 0 ... 0.8 A 0 ... 3 A	2 x 0 ... 2 A 0 ... 5 A	2 x 0 ... 1 A 0 ... 5 A	2 x 0 ... 0.8 A 0 ... 3 A	2 x 0 ... 2 A 0 ... 3 A
Output power	85 W	85 W	98 W	99 W	99 W	98 W	149 W
Display	analog	analog	analog	digital	digital	digital	digital
Remote control (option)	-	-	-	yes	yes	yes	yes
Constant voltage mode							
Adjustment using 10-turn potentiometer; resolution	0.02 %	0.02 %	0.02 %	0.02 %	0.02 %	0.02 %	0.02 %
Voltage regulation							
With change in load 0 - 100 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
With change in mains voltage $\pm 10\%$	10^{-5}	10^{-5}	10^{-5}	10^{-5}	10^{-5}	10^{-5}	10^{-5}
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_{rms}	50 μ V	50 μ V	50 μ V	50 μ V	50 μ V	50 μ V	80 μ V
Drift within 8 hours	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
Regulation time for a load transition from 20 to 100 % and setting to within 0.1 % of rated voltage							
	10 μ s	10 μ s	10 μ s	10 μ s	10 μ s	10 μ s	20 μ s
Constant current mode							
Adjustment using 10-turn potentiometer; resolution	0.04 %	0.04 %	0.04 %	0.04 %	0.04 %	0.04 %	0.04 %
Current regulation							
With change in load 0 - 100 %	0.02 %	0.02 %	0.02 %	0.02 %	0.02 %	0.02 %	0.02 %
With change in mains voltage $\pm 10\%$	10^{-5}	10^{-5}	10^{-5}	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 I_{rms}	50 μ A	20 μ A	20 μ A	50 μ A	20 μ A	20 μ A	50 μ A
Drift within 8 hours	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
Current consumption (A) at 230 V / 50 Hz	0.8	0.8	0.8	0.8	0.8	0.8	1.2
Weight	8.4 kg	8.4 kg	8.4 kg	8.6 kg	8.6 kg	8.6 kg	8.6 kg
Mains voltage: 115/230 V $\pm 10\%$, 48 - 60 Hz, operating temperature: 0 - 40 °C, housing: metal							

Specifications

Quintuple-output power supplies from TOELLNER®

TOE 8435 / 8735

Quintuple-output power supply up to 120 W								
Model TOE	8435-1	8435-2	8435-4	8435-5	8735-1	8735-2	8735-4	8735-5
Outputs	5	5	5	5	5	5	5	5
Voltage	2 x 0 ... 16 V 0 ... 7 V ± 15 V	2 x 0 ... 32 V 0 ... 7 V ± 15 V	2 x 0 ... 16 V 0 ... 7 V ± 5 V	2 x 0 ... 32 V 0 ... 7 V ± 5 V	2 x 0 ... 16 V 0 ... 7 V ± 15 V	2 x 0 ... 32 V 0 ... 7 V ± 15 V	2 x 0 ... 16 V 0 ... 7 V ± 5 V	2 x 0 ... 32 V 0 ... 7 V ± 5 V
Current	2 x 0 ... 2 A 0 ... 3 A 0.5 A	2 x 0 ... 1 A 0 ... 3 A 0.5 A	2 x 0 ... 2 A 0 ... 3 A 1.5 A	2 x 0 ... 1 A 0 ... 3 A 1.5 A	2 x 0 ... 2 A 0 ... 5 A 0.5 A	2 x 0 ... 1 A 0 ... 5 A 0.5 A	2 x 0 ... 2 A 0 ... 5 A 1.5 A	2 x 0 ... 1 A 0 ... 5 A 1.5 A
Output power	100 W	100 W	100 W	100 W	114 W	114 W	114 W	114 W
Display	analog	analog	analog	analog	digital	digital	digital	digital
Remote control (option)	-	-	-	-	yes	yes	yes	yes
Constant voltage mode								
Adjustment using 10-turn potentiometer; resolution								
	0.02 %	0.02 %	0.02 %	0.02 %	0.02 %	0.02 %	0.02 %	0.02 %
Voltage regulation								
With change in load 0 - 100 %								
	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
With change in mains voltage ± 10 %								
	10 ⁻⁵	10 ⁻⁵	10 ⁻⁵	10 ⁻⁵	10 ⁻⁵	10 ⁻⁵	10 ⁻⁵	10 ⁻⁵
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	10 ⁻⁴ /K
Residual ripple V _{rms}								
	50 µV	50 µV	50 µV	50 µV	50 µV	50 µV	50 µV	50 µV
Drift within 8 hours								
	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
Regulation time for a load transition from 20 to 100 % and setting to within 0.1 % of rated voltage								
	10 µs	10 µs	10 µs	10 µs	10 µs	10 µs	10 µs	10 µs
Constant current mode								
Adjustment using 10-turn potentiometer; resolution								
	0.04 %	0.04 %	0.04 %	0.04 %	0.04 %	0.04 %	0.04 %	0.04 %
Current regulation								
With change in load 0 - 100 %								
	0.02 %	0.02 %	0.02 %	0.02 %	0.01 %	0.01 %	0.01 %	0.01 %
With change in mains voltage ± 10 %								
	10 ⁻⁵	10 ⁻⁵	10 ⁻⁵	10 ⁻⁵	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	10 ⁻⁴ /K
Residual ripple I _{rms}								
	50 µA	20 µA	50 µA	20 µA	50 µA	20 µA	50 µA	20 µA
Drift within 8 hours								
	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %
Current consumption (A) at 230 V / 50 Hz								
	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Weight	8.5 kg	8.5 kg	8.5 kg	8.5 kg	8.7 kg	8.7 kg	8.7 kg	8.7 kg
Mains voltage: 115/230 V ± 10 %, 48 - 60 Hz, operating temperature: 0 - 40 °C, housing: metal								