

**PROeco  
PRO ECO 240W 24V 10A**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com



You are looking for a reliable power supply with basic functions.  
With PROeco we can offer you low-cost switch-mode power supply units with high efficiency and system capability. Let's connect.  
In the series production of machines, in particular, switch-mode power supply units with above-average performance values can deliver genuine competitive advantages.  
The low-cost PROeco series offers all the basic functions and delivers impressively high performance and flexibility.  
Our PROeco switch-mode power supply units feature a compact design, high efficiency and are extremely easy to maintain. Thanks to temperature protection, short-circuit and overload resistance they can be universally used in all applications.  
Wide-ranging safety functions and compatibility with our diode and capacitance modules, together with UPS components for setting up a redundant power supply, characterise solutions with PROeco.

**General ordering data**

Type	PRO ECO 240W 24V 10A
Order No.	<a href="#">1469490000</a>
Version	Power supply, switch-mode power supply unit, 24 V
GTIN (EAN)	4050118275599
Qty.	1 Stück

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## Technische Daten

### Dimensions and weights

Width	60 mm	Width (inches)	2,362 inch
Height	125 mm	Height (inches)	4,921 inch
Depth	100 mm	Depth (inches)	3,937 inch
Net weight	1.018,5 g		

### Temperatures

Operating temperature, max.	70 °C	Operating temperature, min.	-25 °C
Storage temperature, max.	85 °C	Storage temperature, min.	-40 °C
Operating temperature	-25 °C...70 °C	Storage temperature	-40 °C...85 °C

### Environmental Product Compliance

REACH SVHC Lead 7439-92-1

### Input

AC current consumption	1,23 A @ 230 V AC / 2,47 A @ 110 V AC	AC input voltage range	85...264 V AC (derating at 100 V AC)
Connection system	Screw connection	DC current consumption	1,18 A @ 370 V DC / 2,4 A @ 120 V DC
DC input voltage range	80...370 V DC (Derating @ 120 V DC)	Frequency range AC	47...63 Hz
Input frequency	47...63 Hz	Input fuse (internal)	Yes
Inrush current	max. 15 A	Rated input voltage	100...240 V AC (wide-range input)
Recommended back-up fuse	4 A / DI, safety fuse 10 A, Char. B, circuit breaker 3...4 A, Char. C, circuit breaker	Surge protection	Varistor

### Output

Capacitive load	unrestricted	Connection system	Screw connection
Continuous output current @ U <sub>Nominal</sub>	10 A @ 55 °C, 2.5 A @ 70 °C	Nominal output current for U <sub>nom</sub>	10 A @ 55 °C
Output power	240 W	Output voltage	24 V
Output voltage	22...28 V (adjustable via potentiometer)	Overload protection	Yes
Parallel connection option	yes, max. 5	Protection against inverse voltage	Yes
Ramp-up time	≤ 100 ms	Rated output voltage	24 V DC ± 1 %
Residual ripple, breaking spikes	< 50 mV <sub>PP</sub> @ 24 V DC, I <sub>N</sub>		

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## Technische Daten

### General data

AC failure bridging time @ $I_{nom}$	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC	Degree of efficiency	90%
Earth leakage current, max.	3,5 mA	Housing version	Metal, corrosion resistant
Indication	Green LED ( $U_{output} > 21.6$ V DC), Yellow LED ( $I_{output} > 90\% I_{Rated}$ typ. ), red LED (overload, overtemperature, short-circuit, $U_{output} < 20.4$ V DC)	MTBF	> 500,000 h in accordance with IEC 61709 (SN29500)
Max. perm. air humidity (operational)	5%...95% RH	Mounting position, installation notice	on terminal rail TS 35
Operating temperature	-25 °C...70 °C	Power factor (approx.)	> 0.94 @ 230 V AC / > 0.99 @ 115 V AC
Power loss, idling	2 W	Power loss, nominal load	24 W
Protection against over-heating	Yes	Protection against reverse voltages from the load	30...35 V DC
Protection degree	IP20	Short-circuit protection	Yes

### EMC / shock / vibration

Limiting of mains voltage harmonic currents	According to EN 61000-3-2	Noise emission in accordance with EN55032	Class B
Vibration resistance IEC 60068-2-6	1 g according to EN 50178	Interference immunity test acc. to	EN 61000-4-2 (ESD), EN 61000-4-3 (RS), EN 61000-4-4 (burst), EN 61000-4-5 (surge), EN 61000-4-6 (conducted), EN61000-4-8 (Fields), EN61000-4-11 (Dips)
Shock resistance IEC 60068-2-27	15 g In all directions		

### Insulation coordination

Insulation voltage input / earth	2 kV	Insulation voltage output / earth	0,5 kV
Insulation voltage, input/output	3 kV	Pollution severity	2
Protection class	I, with PE connection		

### Electrical safety (applied standards)

Electrical machine equipment	Acc. to EN60204	For use with electronic equipment	Acc. to EN50178 / VDE0160
Protection against dangerous shock currents	Acc. to VDE0106-101	Protective separation / protection against electrical shock	VDE0100-410 / acc. to DIN57100-410
Safety extra-low voltage	SELV according to EN 60950, PELV according to EN 60204	Safety transformers for switch-mode power supplies	According to EN 61558-2-16

### Connection data (input)

Conductor cross-section, AWG/kcmil , max.	12	Conductor cross-section, AWG/kcmil , min.	26
Conductor cross-section, flexible , min.	0,5 mm <sup>2</sup>	Conductor cross-section, rigid , max.	6 mm <sup>2</sup>
Conductor cross-section, rigid , min.	0,5 mm <sup>2</sup>	Connection system	Screw connection
Number of terminals	3 for L/N/PE	Tightening torque, max.	0,6 Nm
Tightening torque, min.	0,5 Nm	Wire connection cross section, flexible (input), max.	2,5 mm <sup>2</sup>

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## Technische Daten

### Connection data (output)

Conductor cross-section, AWG/kcmil , max.	12	Conductor cross-section, AWG/kcmil , min.	26
Conductor cross-section, flexible , max.	2,5 mm <sup>2</sup>	Conductor cross-section, flexible , min.	0,5 mm <sup>2</sup>
Conductor cross-section, rigid , max.	6 mm <sup>2</sup>	Conductor cross-section, rigid , min.	0,5 mm <sup>2</sup>
Connection system	Screw connection	Number of terminals	6 (+, -, 13, 14)
Tightening torque, max.	0,6 Nm	Tightening torque, min.	0,5 Nm

### Signalling

Contact load (NO contact)	max. 30 V DC / 1 A	Floating contact	Yes
Relay on/off	Output voltage >21.6 V DC / <20.4 V DC, overload		

### Approvals

Institute (cULus)		Certificate no. (cULus)	E258476
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### Classifications

ETIM 5.0	EC002541	ETIM 6.0	EC002540
eClass 6.2	27-04-90-04	eClass 7.1	27-04-90-04
eClass 8.1	27-04-90-04	eClass 9.0	27-04-07-01
eClass 9.1	27-04-07-01		

### Approvals

Approvals	
ROHS	Conform

### Downloads

Approval/Certificate/Document of Conformity	<a href="#">Declaration of Conformity</a>
Engineering Data	<a href="#">EPLAN, WSCAD, Zuken E3.S</a>
Engineering Data	<a href="#">STEP</a>
User Documentation	<a href="#">Operating instructions</a>

## PROeco PRO ECO 240W 24V 10A

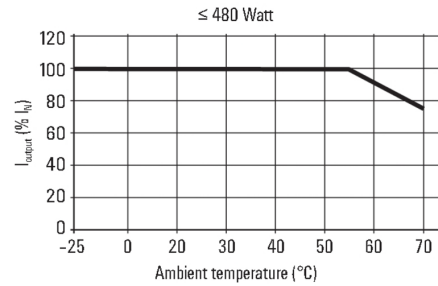
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# Zeichnungen

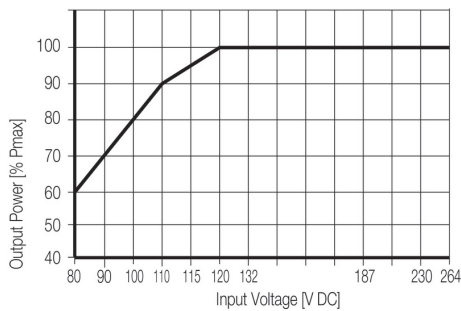
### Electric symbol



### Derating curve



### Derating curve



### Derating curve

