PROeco
PRO ECO 72W 24V 3A

Weidmüller Interface GmbH & Co. KG
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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 72W 24V 3A
Order No.	1469470000
Version	Power supply, switch-mode power supply unit, 24 V
GTIN (EAN)	4050118275711
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Width	34 mm	Width (inches)	1.339 inch
Height	125 mm	Height (inches)	4.921 inch
Depth	100 mm	Depth (inches)	3.937 inch
Net weight	566 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

Rated data UL

Altitude	≤ 3000 m

Input

AC current consumption	0,55 A @ 230 V AC / 1,04 A @ 110 V AC	AC input voltage range	85...264 V AC (derating at 100 V AC)
Connection system	Screw connection	DC current consumption	0,22 A @ 370 V DC / 0,68 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. 40 A	Rated input voltage	100...240 V AC (wide-range input)
Recommended back-up fuse	2 A / DI, safety fuse 6 A, Char. B, circuit breaker 2...4 A, Char. C circuit breaker	Surge protection	Varistor

Output

Capacitive load	unrestricted	Connection system	Screw connection
Continous output current @ $U_{Nominal}$	3 A @ 55 °C, 2,25 A @ 70 °C	Nominal output current for U_{nom}	3 A at 55 °C
Output power	72 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_{PP} @ 24 V DC, I_N		

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General data

AC failure bridging time @ I_{nom}	> 100 ms @ 230 V AC / > 20 ms @ 115 V AC	Degree of efficiency	87 %
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.)	> 0.5...230 V AC / > 0.53... 115 V AC
Power loss, idling	4 W	Power loss, nominal load	9.5 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 mm²	Conductor cross-section, rigid , max.	6 mm²
Conductor cross-section, rigid , min.	0.5 mm²	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 mm²