

## PRO ECO 72W 24V 3A II

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)



The new PROeco 2nd generation power supplies maximise the availability of automation applications. The twelve-part series offers standard functions: with high performance, efficiency and suitability for many systems. The three-colour LED makes service activities and the integration of PROeco devices particularly easy. The series is compatible with DC UPS, electronic load monitoring and diode modules and is suitable for setting up power management systems. The compact design suits space-constrained applications, such as flat control cabinets in the field.

### General ordering data

Version	Power supply, switch-mode power supply unit, 24 V
Order No.	<a href="#">3025560000</a>
Type	PRO ECO 72W 24V 3A II
GTIN (EAN)	4099986951938
Qty.	1 pc(s).

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**Technical data**
**Dimensions and weights**

Depth	100 mm	Depth (inches)	3.937 inch
Height	130 mm	Height (inches)	5.118 inch
Width	32 mm	Width (inches)	1.26 inch
Net weight	440 g		

**Temperatures**

Storage temperature	-40 °C...85 °C	Operating temperature	-25 °C...70 °C
Start-up	≥ -40 °C	Humidity	5...95 % rel. humidity, no condensation

**Rated data UL**

Certificate No. (cURus)	E255651
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**Input**

AC input voltage range	85...264 V AC (derating at 100 V AC)		
Connection system	Screw connection		
Current consumption in relation to the input voltage	Voltage type	AC	
	Input voltage	100 V	
	Input current	1.33 A	
	Voltage type	AC	
	Input voltage	240 V	
	Input current	0.69 A	
	Voltage type	DC	
	Input voltage	120 V	
	Input current	0.73 A	
	Voltage type	DC	
Input voltage	370 V		
Input current	0.26 A		
DC input voltage range	110...370 V DC (derating at <120 V DC)		
Frequency range AC	45...65 Hz		
Input fuse	internal		
Inrush current (typ.)	35 A		
Line regulation (typ.)	1 %		
Load regulation (typ.)	2 %		
Nominal power consumption	82.8 VA		
Rated input voltage	100...240 V AC / 120...340 V DC		
Recommended back-up fuse	2 A / DI, safety fuse 6 A, Char. B, circuit breaker 2...4 A, Char. C circuit breaker		
Start-up time, max.	1 s		
Surge protection	Varistor		
Wire connection method	Screw connection		

**Output**

Capacitive load	unrestricted
Connection system	Screw connection
Continuous output current @ U <sub>Nominal</sub>	1.875 A @ 70 °C
Line regulation (typ.)	1 %
Load regulation (typ.)	2 %

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Mains failure bridge-over time	Mains failure bridge-over time, min.	124 ms
	Input voltage type	AC
	Input voltage	230 V
	Output current	3 A
	Output voltage	24 V
	Mains failure bridge-over time, min.	27 ms
	Input voltage type	AC
	Input voltage	120 V
	Output current	3 A
	Output voltage	24 V
Max. residual ripple	<50 mV <sub>pp</sub> / bandwidth 20 MHz	
Nominal output current for U <sub>nom</sub>	3 A at 55 °C	
Output power	72 W	
Output voltage, max.	28 V	
Output voltage, min.	22 V	
Output voltage, note	(adjustable via potentiometer)	
Overload protection	Yes	
Parallel connection option	yes, max. 3	
Protection against inverse voltage	Yes	
Ramp-up time	≤ 100 ms	
Rated output voltage	24 V DC	
Wire connection method	Screw connection	

## General data

Degree of efficiency	Typ.: 83,5% @ 120 V AC, Typ.: 87,5% @ 230 V AC	
Earth leakage current, max.	3.5 mA	
Housing version	Metal, corrosion resistant	
Humidity	5...95 % rel. humidity, no condensation	
Mounting position, installation notice	on terminal rail TS 35	
Power factor	Power factor typical	0.6
	Input voltage	120 V
	Ambient temperature	25 °C
	Output power	72 W
	Power factor typical	0.5
	Input voltage	230 V
	Ambient temperature	25 °C
	Output power	72 W
Power loss, idling	3 W	
Power loss, nominal load	12 W	
Protection against over-heating	Yes	
Protection against reverse voltages from the load	30...35 V DC	
Protection degree	IP20	
Short-circuit protection	Yes	
Surge voltage category	II	

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## Technical data

### EMC / shock / vibration

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), EN 61000-4-11 (Dips), IEC 61000-6-1, IEC 61000-6-2, IEC 61000-6-3, IEC 61000-6-4	Limiting of mains voltage harmonic currents	According to EN 61000-3-2
Noise emission in accordance with EN55032	Class B	Shock resistance IEC 60068-2-27	30 g in all directions
Vibration resistance IEC 60068-2-6	0.7 g		

### Insulation coordination

Insulation voltage input / earth	3 kV	Insulation voltage output / earth	0.5 kV
Insulation voltage, input/output	4 kV	Pollution severity	2
Protection class	I, with PE connection	Surge voltage category	II

### 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 acc. to IEC 61010-1, PELV acc. to IEC 61010-2-201	Safety transformers for switch-mode power supplies	According to EN 61558-2-16

### Connection data (input)

Conductor cross-section, AWG/kcmil , max.	12 AWG	Conductor cross-section, AWG/kcmil , min.	26 AWG
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	Screwdriver blade	0.6 x 3.5
Stripping length (input)	6 mm	Tightening torque, max.	0.6 Nm
Tightening torque, min.	0.5 Nm	Wire connection cross section, flexible (input), max.	4 mm <sup>2</sup>

### Connection data (output)

Conductor cross-section, AWG/kcmil , max.	12 AWG	Conductor cross-section, AWG/kcmil , min.	26 AWG
Conductor cross-section, flexible , max.	4 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	4 (++) / (-)
Screwdriver blade	0.6 x 3.5	Stripping length (output)	6 mm
Tightening torque, max.	0.6 Nm	Tightening torque, min.	0.5 Nm

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## Technical data

### Connection data (signal)

Number of terminals	2	Stripping length (Signal)	8 mm
Wire connection cross-section, flexible (signal), max.	1.5 mm <sup>2</sup>	Wire connection cross-section, flexible (signal), min.	0.2 mm <sup>2</sup>
Wire cross-section, AWG/kcmil , max.	14	Wire cross-section, AWG/kcmil , min.	28 mm <sup>2</sup>
Wire cross-section, solid , max.	1.5 mm <sup>2</sup>	Wire cross-section, solid , min.	0.2 mm <sup>2</sup>

### Signalling

Contact load (NO contact)	max. 30 V DC / 1 A	Floating contact	Yes
LED green	Operating voltage OK		

### Classifications

ETIM 6.0	EC002540	ETIM 7.0	EC002540
ETIM 8.0	EC002540	ETIM 9.0	EC002540
ECLASS 9.0	27-04-07-01	ECLASS 9.1	27-04-07-01
ECLASS 10.0	27-04-07-01	ECLASS 11.0	27-04-07-01
ECLASS 12.0	27-04-07-01	ECLASS 13.0	27-04-07-01
ECLASS 14.0	27-04-07-01		

### Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c, 7a, 7cl
REACH SVHC	Lead 7439-92-1 Lead monoxide 1317-36-8

### Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E255651
Certificate no. (cULus)	E258476

### Downloads

Approval/Certificate/Document of Conformity	<a href="#">Declaration of Conformity</a>
Engineering Data	<a href="#">CAD data – STEP</a>
User Documentation	<a href="#">Operating instructions</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

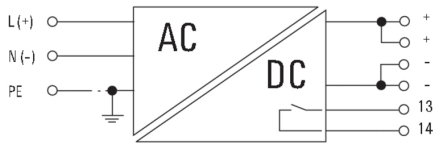
**Data sheet**

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**Drawings**



Status indicator and status relay

Operational status	Status LED	Relay contact (NO)
Fault-free operation: $U_{OUT} > 90\%$ of the set voltage	green	closed
Fault: $U_{OUT} \leq 85\%$ of the set voltage	red	opened
Overload pre-warning: $I_{OUT} > 90\% I_N$ (tolerance: $\pm 5\%$ ) and $U_{OUT} > 90\%$ of the set voltage	yellow	closed

