

## PRO ECO 120W 12V 10A

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

Version	Power supply, switch-mode power supply unit, 12 V
Order No.	<a href="#">1469580000</a>
Type	PRO ECO 120W 12V 10A
GTIN (EAN)	4050118275803
Qty.	1 pc(s).

**PRO ECO 120W 12V 10A**
**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

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

Depth	100 mm	Depth (inches)	3.937 inch
Height	125 mm	Height (inches)	4.921 inch
Width	40 mm	Width (inches)	1.575 inch
Net weight	684 g		

**Temperatures**

Storage temperature	-40 °C...85 °C	Operating temperature	-25 °C...70 °C
---------------------	----------------	-----------------------	----------------

**Environmental Product Compliance**

REACH SVHC	Lead 7439-92-1
------------	----------------

**Input**

AC current consumption	1.25 A @ 230 V AC / 2.25 A @ 110 V AC	AC input voltage range	85...264 V AC (derating at 100 V AC)
Connection system	Screw connection	DC current consumption	0.4 A @ 370 V DC / 1.2 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	Nominal power consumption	137.9 VA
Recommended back-up fuse	4 A / DI, safety fuse 6 A, Char. B, circuit breaker 3...5 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	120 W	Output voltage, max.	16 V
Output voltage, min.	10 V	Output voltage, note	(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	12 V DC ± 1 %	Residual ripple, breaking spikes	< 50 mV ss @ 12 V DC, I Nenn

## PRO ECO 120W 12V 10A

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technical data

### General data

AC failure bridging time @ $I_{nom}$	> 80 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)	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	20 W	Protection against over-heating	Yes
Protection against reverse voltages from the load	> 18 V DC	Short-circuit protection	Yes

### 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), EN61000-4-11 (Dips)	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	15 g In all directions
Vibration resistance IEC 60068-2-6	1 g according to EN 50178		

### 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 acc. to IEC 60950-1, PELV according to EN 60204-1	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
Wire connection cross section, flexible (input), max.	2.5 mm <sup>2</sup>		

## PRO ECO 120W 12V 10A

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany

www.weidmueller.com

## Technical data

### 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)

### 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

Certificate no. (cULus)	E258476	Institute (cULus)	CULUS
-------------------------	---------	-------------------	-------

### Classifications

ETIM 6.0	EC002540	ETIM 7.0	EC002540
ETIM 8.0	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

### Approvals

Approvals



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

### Downloads

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

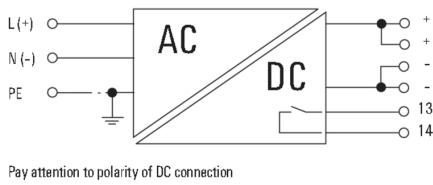
**PRO ECO 120W 12V 10A**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

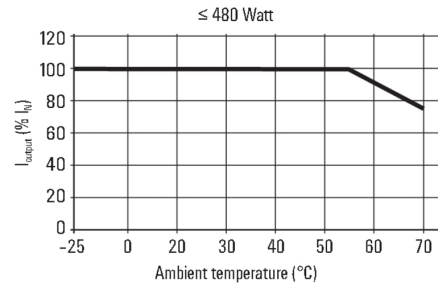
www.weidmueller.com

**Drawings**

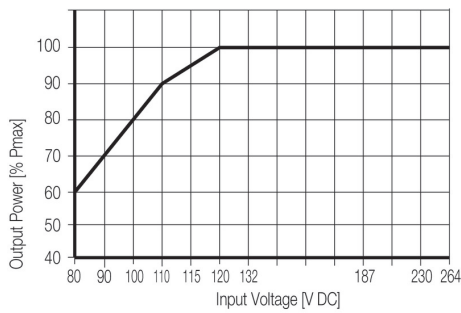
**Electric symbol**



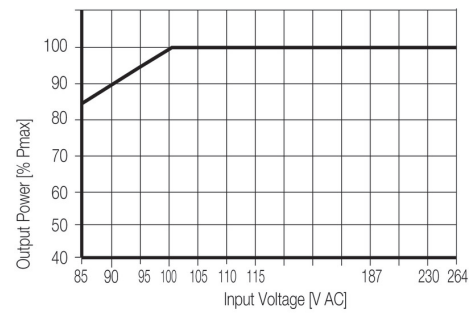
**Derating curve**



**Derating curve**



**Derating curve**



## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [DIN Rail Power Supplies](#) category:*

*Click to view products by [Weidmuller](#) manufacturer:*

Other Similar products are found below :

[DVP01PU-S](#) [DVPPS01](#) [DVPPS02](#) [PS-6012](#) [PS9Z-5R1G](#) [PS-C24024](#) [DVPACAB530](#) [DVPEN01-SL](#) [ADNB017-24-1PM-C](#) [ADNB040-24-1PM-C](#) [ADNB034-12-1PM-C](#) [SS14011524](#) [PS-UPS40](#) [PSD-A60W12](#) [PSD-A60W48](#) [S8T-BUS03](#) [PS-S4024](#) [NTPS-24-1.3](#) [PS-10024](#) [PS-S10024](#) [PS-C12024](#) [PSP-480S24](#) [PS-C48024](#) [PS-C480P24](#) [PSC-2024](#) [PSC-4012](#) [PSC-4048](#) [PSC-9615](#) [PSC-15124](#) [PSC-15148](#) [PSC-24148](#) [PSC-48148](#) [TRIO2-DIODE/12-24DC/2X20/1](#) [TRIO-PS-2G/1AC/12DC/5/C2LP](#) [QUINT4-PS/1AC/48DC/5](#) [PSA-6024](#) [PSS18/24/0.75](#) [PSS120/24/5](#) [96PSD-A40W24-MM](#) [PSD-A120W12](#) [NDR-7548](#) [NDR-7524](#) [NDR-12024](#) [SCP30D512-DN](#) [SCP30S24-DN](#) [SDN20-24-100C](#) [SDN40-24-480C](#) [2467040000](#) [AMED120-48SNZ](#) [AMED120-12SNZ](#)