

PROeco
PRO ECO3 480W 24V 20A
Weidmüller Interface GmbH & Co. KG

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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 ECO3 480W 24V 20A
Order No.	1469550000
Version	Power supply, switch-mode power supply unit, 24 V
GTIN (EAN)	4050118275742
Qty.	1 pc(s).

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Technical data
Dimensions and weights

Width	100 mm	Height	125 mm
Depth	120 mm	Net weight	1,495 g

Temperatures

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

AC current consumption	1.2 A @ 3 x 500 V AC / 1.5 A @ 3 x 400 V AC	AC input voltage range	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
Connection system [Input]	Screw connection	DC current consumption	0.7 A @ 800 V DC / 1.2 A @ 450 V DC
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)	Frequency range AC	47...63 Hz
Input frequency	47...63 Hz	Input fuse (internal)	Yes
Inrush current	max. 50 A	Rated input voltage	3 x 400...3 x 500 V AC (wide-range input)
Recommended back-up fuse	4 A / DI, safety fuse 3...5 A, Char. C, circuit breaker		

output

Capacitive load	unrestricted	Connection system [Output]	Screw connection
Continuous output current @ U_{Rated}	20 A @ 55 °C, 15 A @ 70 °C	Output voltage	24 V
Output voltage	22...28 V (adjustable via potentiometer)	Overload protection	Yes
Parallel connection option	yes, max. 3	Protection against inverse voltage	Yes
Ramp-up time	≤ 100 ms	Rated (nominal) output current @ U_{Nom}	20 A @ 55 °C
Rated output voltage	24 V DC ± 1 %	Residual ripple, breaking spikes	< 50 mV _{SS} @ 24 V DC, I_N

General data

AC failure bridging time @ I_{Nom}	> 30 ms @ 3 x 500 V AC / > 20 ms @ 3 x 400 V AC	Degree of efficiency	89%
Earth leakage current, max.	1 mA	Housing version	Metal, corrosion resistant
Indication	LED green ($U_{output} > 21.6$ V DC), LED yellow ($I_{output} > 90\% I_{Rated}$ typ.), LED red (overload, overtemperature, short- circuit, $U_{output} < 20.4$ V DC)	MTBF	> 500,000 h acc. to IEC 1709 (SN29500)
Max. perm. air humidity (operational)	5 %...95 % RH	Mounting position, installation notice	horizontally, on terminal rail TS 35
Operating temperature	-25 °C...70 °C	Power factor (approx.)	> 0.55 @ 3 x 500 V AC / > 0.65 @ 3 x 400 V AC
Power loss, idling	8 W	Power loss, nominal load	48 W
Protection against over-heating	Yes	Short-circuit protection	Yes

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Technical data

EMC / shock / vibration

Limiting of mains voltage harmonic currents	in accordance with EN 61000-3-2	Noise emission acc. to EN55022	Class B
Vibration resistance IEC 60068-2-6		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), EN 61000-4-8 (Fields), EN 61000-4-11 (Dips)
	1 g according to EN50178		
Shock resistance IEC 60068-2-27	15 g In all directions		

Insulation coordination

Class of protection	I, with PE connection	Insulation voltage input / earth	2 kV
Insulation voltage output / earth	0.5 kV	Insulation voltage, input/output	3 kV
Pollution severity	2		

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 EN60950, PELV acc. to EN60204	Safety transformers for switch-mode power supplies	Acc. to EN 61558-2-17

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 ²	Conductor cross-section, rigid , max.	6 mm ²
Conductor cross-section, rigid , min.	0.5 mm ²	Connection system [Input]	Screw connection
Number of terminals [Input]	4 for L1/L2/L3/PE	Tightening torque, max.	0.6 Nm
Tightening torque, min.	0.5 Nm	Wire connection cross section, flexible (input), max.	2.5 mm ²

Connection data (output)

Conductor cross-section, AWG/kcmil , max.	10	Conductor cross-section, AWG/kcmil , min.	26
Conductor cross-section, flexible , max.	2.5 mm ²	Conductor cross-section, flexible , min.	0.5 mm ²
Conductor cross-section, rigid , max.	6 mm ²	Conductor cross-section, rigid , min.	0.5 mm ²
Connection system [Output]	Screw connection	Number of terminals [Output]	7 (++,--,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 / < 20.4 V		

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Technical data**Approvals**

Institute (cULus)



Certificate no. (cULus)

E258476

Classifications

eClass 6.2

27-04-90-04

Product information

Descriptive text ordering data

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

Approvals

Approvals



ROHS

Conform

Downloads

Package insert

[Operating instructions](#)

Declaration of Conformity

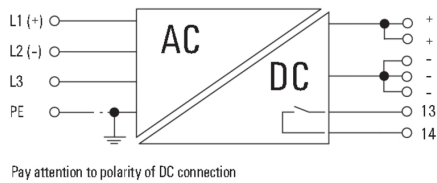
[K562_01_14.pdf](#)[3-D model](#)

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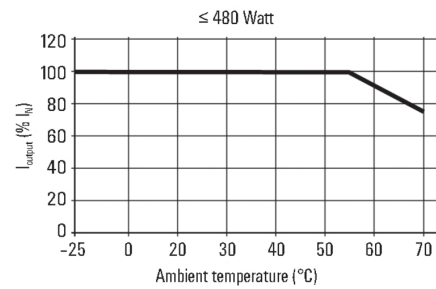
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Drawings

Electric symbol



Derating curve



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