

## PRO MAX 960W 24V 40A

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

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



PROmax offers diverse solutions for demanding automation.

Our high performance and durable PROmax switch-mode power supply units are designed for especially demanding requirements. PROmax reliably copes with continuous overload of up to 20% or short-term peak loads of 300% occurring with high control cabinet temperatures.

High boost capability and full power are also made possible in a wide temperature range. Our switch-mode power supply units can be used around the world and are also suitable for confined spaces thanks to their low width.

Together with our uninterruptible DC USPs, the diode modules or CAP modules, you can create a power supply solution that is tailored to your requirements.

### General ordering data

Version	Power supply, switch-mode power supply unit, 24 V
Order No.	<a href="#">1478150000</a>
Type	PRO MAX 960W 24V 40A
GTIN (EAN)	4050118286038
Qty.	1 pc(s).

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## Technical data

### Dimensions and weights

Depth	150 mm	Depth (inches)	5.905 inch
Height	130 mm	Height (inches)	5.118 inch
Width	140 mm	Width (inches)	5.512 inch
Net weight	3,900 g		

### Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-25 °C...70 °C
Operating temperature, min.	-25 °C	Operating temperature, max.	70 °C
Humidity at operating temperature	5...95 %, no condensation		

### Rated data UL

Certificate No. (cURus)	E255651
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### Input

AC current consumption	4,52A @ 230 VAC / 10A @ 115 VAC		
AC input voltage range	85...277 V AC		
Connection system	Screw connection		
DC current consumption	2,8A @ 370 VDC / 10A @ 120 VDC		
DC input voltage range	80...370 V DC		
Frequency range AC	45...65 Hz		
Input fuse (internal)	Yes		
Inrush current	max. 15 A		
Nominal power consumption	1,032 W		
Power factor	Power factor typical	0.95	
	Input voltage	230 V AC	
	Ambient temperature	25 °C	
	Output power	960 W	
Rated input voltage	100...240 V AC		
Recommended back-up fuse	20 A, char. B circuit breaker, 16 A, char. C, circuit breaker		
Surge protection	Varistor		

### Output

Connection system	Screw connection	Continuous output current @ $U_{Nominal}$	48 A @ 45°C, 30 A @ 70°C
Nominal output current for $U_{nom}$	40 A @ 60 °C	Output power	960 W
Output voltage, max.	29.5 V	Output voltage, min.	22.5 V
Output voltage, note	(adjustable via potentiometer)	Parallel connection option	yes, max. 3
Protection against inverse voltage	Yes	Rated output voltage	24 V DC $\pm$ 1 %
Residual ripple, breaking spikes	< 50 mVss @ $U_{Nenn}$ , Full Load		

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### General data

AC failure bridging time @ $I_{nom}$	min. 20 ms	Current limiting	> 120% $I_N$
Degree of efficiency	93%	Derating	> 60°C / 75% @ 70°C
Earth leakage current, max.	3.5 mA	Housing version	Metal, corrosion resistant
Mounting position, installation notice	Horizontal on TS35 mounting rail. 50 mm of clearance at top & bottom for air circ. Can mount side by side with no space in between.	Operating temperature	-25 °C...70 °C
Power loss, idling	5 W	Power loss, nominal load	72.3 W
Protection against reverse voltages from the load	30...35 V DC	Protection degree	IP20
Short-circuit protection	Yes	Start-up	≥ -40 °C
Status indication	LED red/green and relay (≥21.6 V DC LED green, relay on/ ≤20.6 V DC LED red, relay off)	Surge voltage category	III

### EMC / shock / vibration

Interference immunity test acc. to	EN 55024, EN 55032, IEC61000-3-2,-3, IEC61000-4-2,-3,-4,-5,-6,-8,-11	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	2.3 g

### Insulation coordination

Humidity at operating temperature	5...95 %, no condensation	Insulation voltage input / earth	3.5 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	III		

### 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.	10	Conductor cross-section, AWG/kcmil , min.	26
Conductor cross-section, flexible , min.	0.22 mm <sup>2</sup>	Conductor cross-section, rigid , max.	6 mm <sup>2</sup>
Conductor cross-section, rigid , min.	0.18 mm <sup>2</sup>	Connection system	Screw connection
Wire connection cross section, flexible (input), max.	4 mm <sup>2</sup>		

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## Connection data (output)

Conductor cross-section, AWG/kcmil , max.	8	Conductor cross-section, AWG/kcmil , min.	22
Conductor cross-section, flexible , max.	16 mm <sup>2</sup>	Conductor cross-section, flexible , min.	0.5 mm <sup>2</sup>
Conductor cross-section, rigid , max.	16 mm <sup>2</sup>	Conductor cross-section, rigid , min.	0.5 mm <sup>2</sup>
Connection system	Screw connection	Number of terminals	8 (+,+,-,11,13,14)

## Signalling

Contact load (NO contact)	max. 30 V DC / 1 A	Floating contact	Yes
Status indication	LED red/green and relay (≥2.1.6 V DC LED green, relay on/ ≤20.6 LED red, relay off)		

## Approbations

Certificate No. (cURus)	E255651	Certificate no. (cULus)	E258476
Certificate no. (cULusEX)	E470829	Institute (cULus)	CULUS
Institute (cULusEX)	CULUSEX	Institute (cURus)	CURUS

## 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

## Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	6d8cdf22-8230-4af8-86c8-3558c716666d

## Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
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**Technical data****Downloads**

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

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**Data sheet**

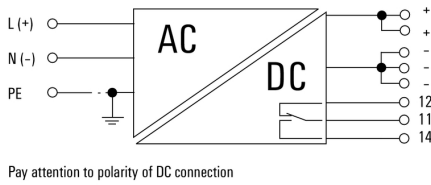
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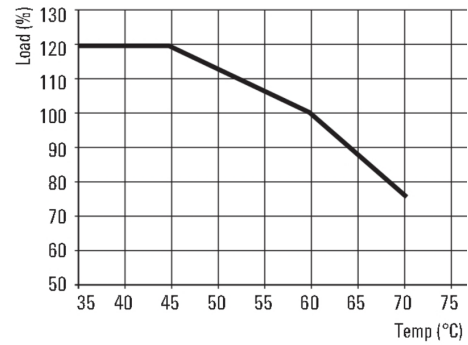
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**Drawings**

**Electric symbol**



**Derating curve**



**Derating curve**

