

**PRO INSTA 96W 48V 2A****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

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www.weidmueller.com



Power supplies from Weidmüller have long since proved their worth in supplying electrical modules.

They can therefore be used safely in harsh industrial environments, in small businesses and in living areas, and have been granted international approvals. Weidmüller provides power supplies and additional components for industrial applications:

- Switched-mode power supply units
- DC/DC converters
- UPS control modules
- Electronic fuses

**General ordering data**

Type	PRO INSTA 96W 48V 2A
Order No.	<a href="#">2580270000</a>
Version	
GTIN (EAN)	4050118591002
Qty.	1 pc(s).

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

Width	90 mm	Width (inches)	3.543 inch
Height	90 mm	Height (inches)	3.543 inch
Depth	60 mm	Depth (inches)	2.362 inch
Net weight	361 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

**Input**

AC current consumption	1.2 A @ 230 V AC / 2.5 A @ 100 V AC	AC input voltage range	85...264 V AC (derating at 100 V AC)
Connection system	PUSH IN	DC current consumption	0.4 A @ 370 V DC / 1.35 A @ 120 V DC
DC input voltage range	95...370 V DC	Frequency range AC	45...65 Hz
Input fuse (internal)	Yes	Inrush current	max. 40 A
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

**output**

Capacitive load	unrestricted	Connection system	PUSH IN
Continuous output current @ U <sub>Nominal</sub>	2 A @ 55 °C, 1.25 A @ 70 °C	Nominal output current for U <sub>nom</sub>	2 A @ 55 °C
Output voltage	56...35 V (adjustable via potentiometer on front)	Ramp-up time	≤ 100 ms
Rated output voltage	48 V DC ± 1 %	Residual ripple, breaking spikes	< 50 mV <sub>ss</sub> @ U <sub>Nenn</sub> , Full Load

**General data**

Degree of efficiency	89%	Housing version	Plastic, protective insulation
MTBF	> 750.000 h nach IEC 61709 (SN29500)	Mounting position, installation notice	Horizontal on DIN rail TS 35, top and bottom 50 mm clearance for free air flow, 10 mm clearance to neighbouring active subassemblies with full load, 5 mm with passive neighbouring subassemblies, direct row mounting with 90% rated load
Operating temperature	-25 °C...70 °C	Power loss, idling	0.45 W
Power loss, nominal load	10.56 W	Protection degree	IP20

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## Technical data

### EMC / shock / vibration

Limiting of mains voltage harmonic currents	EN 61000-4-2 (ESD)  EN 61000-4-3 and EN 61000-4-8 (fields) EN 61000-4-4 (burst) EN 61000-4-5 (surge) EN 61000-4-6 (conducted)  EN 61000-4-11 (dips), EN 61000-4-11 (Dips)	Noise emission in accordance with EN55032	Class B
Vibration resistance IEC 60068-2-6	2.3 g	Interference immunity test acc. to	EN 61000-4-2 (ESD)  EN 61000-4-3 and EN 61000-4-8 (fields) EN 61000-4-4 (burst) EN 61000-4-5 (surge) EN 61000-4-6 (conducted)  EN 61000-4-11 (dips), EN 61000-4-11 (Dips)
Shock resistance IEC 60068-2-27	15 g In all directions		

### Insulation coordination

Insulation voltage output / earth	0.5 kV	Insulation voltage output / earth	3.5 kV
Insulation voltage, input/output	4 kV	Pollution severity	2
Protection degree	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 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.	24
Conductor cross-section, flexible , min.	0.25 mm <sup>2</sup>	Conductor cross-section, rigid , max.	2.5 mm <sup>2</sup>
Conductor cross-section, rigid , min.	0.25 mm <sup>2</sup>	Connection system	PUSH IN
Wire connection cross section, flexible (input), max.	2.5 mm <sup>2</sup>		

### Connection data (output)

Conductor cross-section, AWG/kcmil , max.	12	Conductor cross-section, AWG/kcmil , min.	24
Conductor cross-section, flexible , max.	2.5 mm <sup>2</sup>	Conductor cross-section, flexible , min.	0.25 mm <sup>2</sup>
Conductor cross-section, rigid , max.	2.5 mm <sup>2</sup>	Conductor cross-section, rigid , min.	0.25 mm <sup>2</sup>
Connection system	PUSH IN	Number of terminals	4 (++ / -)

### Signalling

LED green	Operating voltage OK
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### Classifications

ETIM 6.0	EC002540	eClass 6.2	19-05-10-01
eClass 9.0	27-04-07-01	eClass 9.1	27-04-07-01

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**Data sheet****PRO INSTA 96W 48V 2A**

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**Technical data****Approvals**

ROHS	Conform
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**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">Declaration of Conformity</a>
User Documentation	<a href="#">Operating instruction</a>

**Data sheet**

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**Drawings**

