

**PRO INSTA 90W 24V 3.8A****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



The single-phase INSTA-POWER switching power supplies are characterised by a wide power spectrum, compact design and good value for money. They are suitable for temperature ranges from -25°C to +70°C, have international approvals and a wide voltage input range. This makes them suitable for a wide range of applications. This also includes signal and telecommunications systems as well as automation systems with a low power requirement up to 96 Watt.

**General ordering data**

Version	Power supply, switch-mode power supply unit
Order No.	<a href="#">2580250000</a>
Type	PRO INSTA 90W 24V 3.8A
GTIN (EAN)	4050118590982
Qty.	1 pc(s).

**PRO INSTA 90W 24V 3.8A**
**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

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

Depth	60 mm	Depth (inches)	2.362 inch
Height	90 mm	Height (inches)	3.543 inch
Net weight	352 g	Width	90 mm
Width (inches)	3.543 inch		

**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	1.2 A @ 230 V AC / 2.4 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 / 1.3 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
Nominal output current for $U_{nom}$	3.8 A @ 55 °C	Output voltage	22...25 V (adjustable via potentiometer on front)
Output voltage, max.	25 V	Output voltage, min.	22 V
Output voltage, note	(adjustable via potentiometer on front)	Ramp-up time	≤ 100 ms
Rated output voltage	24 V DC ± 1 %	Residual ripple, breaking spikes	< 50 mV <sub>ss</sub> @ $U_{Nenn}$ , Full Load

**General data**

Degree of efficiency	87 %	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	Protection against reverse voltages from the load	30...35 V DC

**PRO INSTA 90W 24V 3.8A**
**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Technical data**
**EMC / shock / vibration**

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)	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	Shock resistance IEC 60068-2-27	15 g In all directions
Vibration resistance IEC 60068-2-6	2.3 g		

**Insulation coordination**

Insulation voltage, input/output	4 kV	Pollution severity	2
Protection class	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
-----------	----------------------

**Approvals**

Certificate No. (CSA)	70211209	Institute (CSA)	CSA
-----------------------	----------	-----------------	-----

**Classifications**

ETIM 6.0	EC002540	ETIM 7.0	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

Creation date December 8, 2020 11:38:53 AM CET

Catalogue status 07.12.2020 / We reserve the right to make technical changes.

**Data sheet****PRO INSTA 90W 24V 3.8A****Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany

www.weidmueller.com

**Technical data****Approvals**

Approvals



ROHS

Conform

**Downloads**Approval/Certificate/Document of  
Conformity[Declaration of Conformity](#)

Engineering Data

[STEP](#)

User Documentation

[Operating instruction](#)

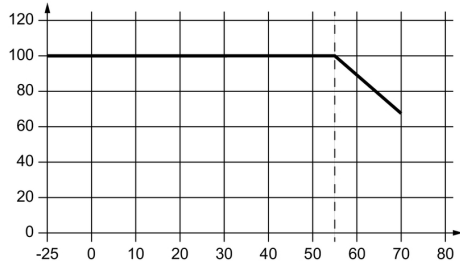
**Data sheet**

**PRO INSTA 90W 24V 3.8A**

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

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

**Drawings**



## 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 :

[PS-3015](#) [DVP01PU-S](#) [DVPPS01](#) [PS-C24024](#) [ADNB040-24-1PM-C](#) [SS14011524](#) [PSW-12024](#) [PSC-6024](#) [S8T-BUS03](#) [PS-S4024](#) [PS-10024](#)  
[PS-C12024](#) [PS-C48024](#) [PS-C480P24](#) [PSC-2024](#) [PSC-4048](#) [PSC-15124](#) [PSC-48148](#) [TRIO-PS-2G/1AC/12DC/5/C2LP](#) [PSS18/24/0.75](#) [PSD-](#)  
[A120W12](#) [NDR-7524](#) [AMED75-48SJZ](#) [787-1007](#) [1SVR427043R1200](#) [50995](#) [50903](#) [50997](#) [EL50-D](#) [18924-9989](#) [50996](#) [HDN-3024](#)  
[ISED-120-24](#) [1335699](#) [1335698](#) [SPE3103U](#) [SPM3051](#) [P4305-USB](#) [SPE6053U](#) [DT30P5](#) [SPM6053](#) [POS DIN30W24](#) [SPB-015-12](#) [EL50-B](#)  
[50905](#) [DRB240-48-1](#) [CFM50S360-SD](#) [POS DIN30W15](#) [POS MDIN60W12](#) [18924-9988](#)