

## PRO INSTA 60W 24V 2.5A

**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="#">2580230000</a>
Type	PRO INSTA 60W 24V 2.5A
GTIN (EAN)	4050118590968
Qty.	1 Stück

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## Technische Daten

### Dimensions and weights

Depth	60 mm	Depth (inches)	2,362 inch
Height	90 mm	Height (inches)	3,543 inch
Net weight	258 g	Width	72 mm
Width (inches)	2,835 inch		

### Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-25 °C...70 °C
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### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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### Input

AC current consumption	0.7 A @ 230 V AC / 1.5 A @ 100 V AC	AC input voltage range	85...264 V AC (derating at 100 V AC)
Connection system	PUSH IN	DC current consumption	0.25 A @ 370 V DC / 0.8 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 $U_{nom}$	2.5 A @ 55 °C	Output voltage	22...28 V (adjustable via potentiometer on front)
Output voltage, max.	28 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	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	Protection against reverse voltages from the load	30...35 V DC

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### 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
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### Approvals

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

Erstellungs-Datum 5 de Abril de 2021 17:19:33 CEST

Katalogstand 12.03.2021 / Technische Änderungen vorbehalten

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## Technische Daten

### Approvals

Approvals



ROHS

Conform

### Downloads

Approval/Certificate/Document of  
Conformity

[Declaration of Conformity](#)

Engineering Data

[STEP](#)

User Documentation

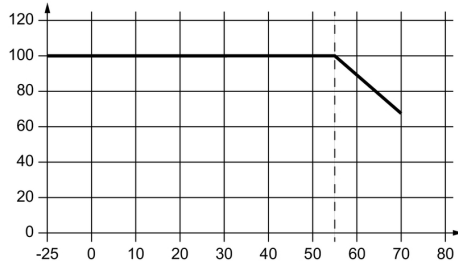
[Operating instruction](#)

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## Zeichnungen



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## Accessories

### Slotted screwdriver



VDE insulated screwdriver sets, for working on live parts up to 1000 V AC and 1500 V DC, DIN EN 60900. IEC 900. Each piece is "GS" safety tested. Blade made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, gun-metal finish.

### General ordering data

Type	SDIS SL 0.6X3.5X100	Version
Order No.	<a href="#">1274660000</a>	Screwdriver, Mounting tool
GTIN (EAN)	4050118072631	
Qty.	1 Stück	

### W-Series



### Klippon® Connect with clamping yoke Technology

The high reliability and variety of designs of the terminal blocks with clamping yoke connections make planning easier and optimises operational safety. Klippon® Connect provides a proven response to a range of different requirements.

### General ordering data

Type	WEW 35/2 V0 GF SW	Version
Order No.	<a href="#">1479000000</a>	W-Series, End bracket
GTIN (EAN)	4050118286779	
Qty.	100 Stück	
Type	WEW 35/1 V0 GF SW	Version
Order No.	<a href="#">1478990000</a>	W-Series, End bracket
GTIN (EAN)	4050118286892	
Qty.	50 Stück	