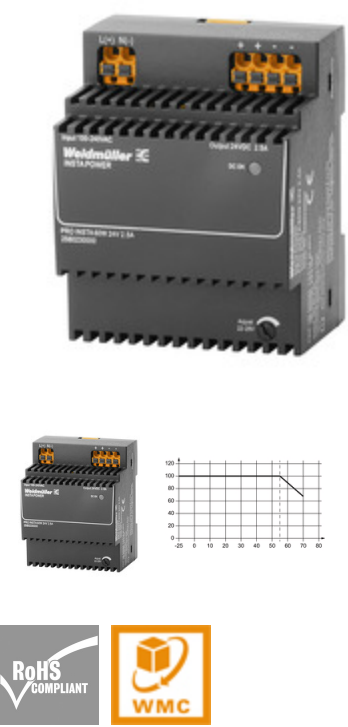


PRO INSTA 60W 24V 2.5A



General ordering data

Version	Power supply, switch-mode power supply unit, 24 V
Order No.	2580230000
Type	PRO INSTA 60W 24V 2.5A
GTIN (EAN)	4050118590968
Qty.	1 pc(s).

Dimensions and weights

Depth	60 mm
Depth (inches)	2.362 inch
Height	90 mm
Height (inches)	3.543 inch
Width	72 mm
Width (inches)	2.835 inch
Net weight	258 g

Temperatures

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

Environmental Product Compliance

REACH SVHC

Lead 7439-92-1, Lead monoxide 1317-36-8

SCIP

d62541f7-8058-4336-b693-7303c8b40800

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 with actuator
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
Nominal power consumption	67.4 VA
Rated input voltage	110...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
Wire connection method	PUSH IN with actuator

Output

Capacitive load	unrestricted
Connection system	PUSH IN
Continuous output current @ U_{Nominal}	2.5 A @ 55 °C, 1.56 A @ 70 °C
Nominal output current for U_{nom}	2.5 A @ 55 °C
Output current, max.	2.5 A
Output power	60 W
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 mVss @ U_{Nenn} , Full Load
Wire connection method	PUSH IN with actuator

General data

Degree of efficiency	89%
Housing version	Plastic, protective insulation

MTBF

According to Standard Telcordia SR-332

Operating time (hours), min. 1,014,000 h

Ambient temperature	25 °C
Input voltage	230 V
Output power	60 W
Duty cycle	100 %
According to Standard	Telcordia SR-332
Operating time (hours), min.	480,000 h
Ambient temperature	40 °C
Input voltage	230 V
Output power	60 W
Duty cycle	100 %

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

Power loss, idling 0.44 W

Power loss, nominal load 6.6 W

Protection against reverse voltages from the load 30...35 V DC

Protection degree IP20

Short-circuit protection Yes, internal

Start-up ≥ -40 °C

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 / earth 3.5 kV

Insulation voltage output / earth 0.5 kV

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 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.	12
Conductor cross-section, AWG/kcmil , min.	24
Conductor cross-section, flexible , min.	0.25 mm ²
Conductor cross-section, rigid , max.	2.5 mm ²
Conductor cross-section, rigid , min.	0.25 mm ²
Connection system	PUSH IN with actuator
Wire connection cross section, flexible (input), max.	2.5 mm ²

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 ²
Conductor cross-section, flexible , min.	0.25 mm ²
Conductor cross-section, rigid , max.	2.5 mm ²
Conductor cross-section, rigid , min.	0.25 mm ²
Connection system	PUSH IN
Number of terminals	4 (++) / (--)

Signalling

LED green	Operating voltage OK
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Approbations

Certificate no. (cULus)	E258476
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Institute (cULus)

CULUS

Downloads

Approval/Certificate/Document of
Conformity

PRO INSTA 60W 30W 5V EN 62368-1.pdf
CSA UL508 UL 121201 Certificate.pdf
UL 61010 Certificate.pdf
Declaration of Conformity

Engineering Data

CAD data -- STEP

Eplan Data Portal

Eplan data

CADENAS eCATALOG

CAX data

User Documentation

Operating instruction

Catalogues

Catalogues in PDF-format

Classifications

ETIM 6.0

EC002540

ETIM 7.0

EC002540

ETIM 8.0

EC002540

ETIM 9.0

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

ECLASS 13.0

27049002

Approvals

Approvals



ROHS

Conform

UL File Number Search

UL Website

Certificate no. (cULus)

E258476

Related products:



Order No.: 2580180000

Type: PRO INSTA 16W 24V 0.7A

Version:

Power supply, switch-
mode power supply
unit, 24 V

[PDF data sheet](#)
[Add to Inquiry List](#)



Order No.: 2580220000
Type: PRO INSTA 30W 12V 2.6A

Version:
Power supply, switch-
mode power supply
unit, 12 V

[PDF data sheet](#)
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Order No.: 2580190000
Type: PRO INSTA 30W 24V 1.3A

Version:
Power supply, switch-
mode power supply
unit, 24 V

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Order No.: 2580210000
Type: PRO INSTA 30W 5V 6A

Version:
Power supply, switch-
mode power supply
unit, 5 V

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Order No.: 2580240000
Type: PRO INSTA 60W 12V 5A

Version:
Power supply, switch-
mode power supply
unit, 12 V

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Order No.: 2580250000
Type: PRO INSTA 90W 24V 3.8A

Version:
Power supply, switch-
mode power supply
unit, 24 V

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Order No.: 2580260000
Type: PRO INSTA 96W 24V 4A

Version:
Power supply, switch-
mode power supply
unit, 24 V

[PDF data sheet](#)
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Order No.: 2580270000
Type: PRO INSTA 96W 48V 2A

Version:
Power supply, switch-
mode power supply
unit, 48 V

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