

Power supply unit - UNO2-PS/1AC/24DC/480W - 2910105

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Primary-switched UNO power supply for DIN rail mounting, input: single-phase, output: 24 V DC/480 W

Your advantages

- ✓ Save space in the control cabinet, thanks to an extremely narrow overall width of just 59 mm
- ✓ Save energy, thanks to a high degree of efficiency
- ✓ Outdoor installation possible, with a wide temperature range of -25°C... +70°C
- ✓ Simple output voltage monitoring, thanks to the floating DC OK relay contact



Key Commercial Data

Packing unit	1 pc
GTIN	 4 0 5 5 6 2 6 4 5 6 6 5 2
GTIN	4055626456652

Technical data

Dimensions

Width	59 mm
Height	130 mm
Depth	125 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C (> 55 °C Derating: 2.5 %/K)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	≤ 95 % (at 25 °C, non-condensing)
Climatic class	3K3 (in acc. with EN 60721)
Degree of pollution	2
Installation height	≤ 3000 m (> 2000 m, Derating: 10 %/1000 m)

Input data

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Input data

Nominal input voltage range	100 V AC ... 240 V AC
Input voltage range	100 V AC ... 240 V AC -15 % ... +10 %
Frequency range (f_N)	50 Hz ... 60 Hz #10 %
Current consumption	5.4 A (100 V AC)
	4.4 A (120 V AC)
	2.3 A (230 V AC)
	2.2 A (240 V AC)
Inrush current	< 20 A (at 25 °C)
Mains buffering time	typ. 20 ms (120 V AC)
	typ. 20 ms (230 V AC)
Input fuse	8 A (fast blow, internal)
Recommended breaker for input protection	10 A ... 16 A (Characteristic B, C, D, K or comparable)
Type of protection	Transient protection
Protective circuit/component	Varistor, gas-filled surge arrester

Output data

Nominal output voltage	24 V DC
Setting range of the output voltage (U_{Set})	24 V DC ... 28 V DC (constant capacity)
Nominal output current (I_N)	20 A (-25 °C ... 55 °C)
Connection in parallel	Yes, for redundancy and increased capacity
Connection in series	yes
Feedback voltage resistance	≤ 35 V DC
Protection against overvoltage at the output (OVP)	≤ 35 V DC
Residual ripple	< 100 mV _{PP} (with nominal values)
Output power	480 W
Maximum power dissipation in no-load condition	< 4 W
Power loss nominal load max.	< 36 W

General

Net weight	1 kg
Efficiency	typ. 93 % (120 V AC)
	typ. 94.6 % (230 V AC)
Insulation voltage input/output	4 kV AC (type test)
	3 kV AC (routine test)
Protection class	I
Degree of protection	IP20
MTBF (IEC 61709, SN 29500)	> (40 °C)
Mounting position	horizontal DIN rail NS 35, EN 60715
Assembly instructions	Alignable: 5 mm horizontally, 15 mm next to active components, 30 mm vertically

Connection data, input

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Connection data, input

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	6 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	4 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	10
Stripping length	8 mm
Screw thread	M3

Connection data, output

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	6 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	4 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	10
Stripping length	8 mm
Screw thread	M3

Connection data for signaling

Connection method	Screw connection
Conductor cross section AWG min.	26
Conductor cross section AWG max.	14
Stripping length	7 mm
Screw thread	M3

Standards

EMC requirements for noise immunity	EN 61000-6-2
Standard - Safety of power supply units up to 1100 V (insulation distances)	DIN EN 61558-2-16
Standard - Electrical safety	IEC 61010-2-201 (SELV)
Standard - Electronic equipment for use in electrical power installations and their assembly into electrical power installations	EN 50178/VDE 0160 (PELV)
Standard - safety for equipment for measurement, control, and laboratory use	IEC 61010-1
Standard - Safety extra-low voltage	IEC 61010-1 (SELV)
	IEC 61010-2-201 (PELV)
Standard - Safe isolation	IEC 61558-2-16
Standard - Limitation of mains harmonic currents	EN 61000-3-2

Conformance/approvals

UL approvals	UL/C-UL Listed UL 61010-1
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Conformance/approvals

	UL/C-UL Listed UL 61010-2-201
SIQ	CB-Scheme (IEC 61010-1, IEC 61010-2-201)

EMC data

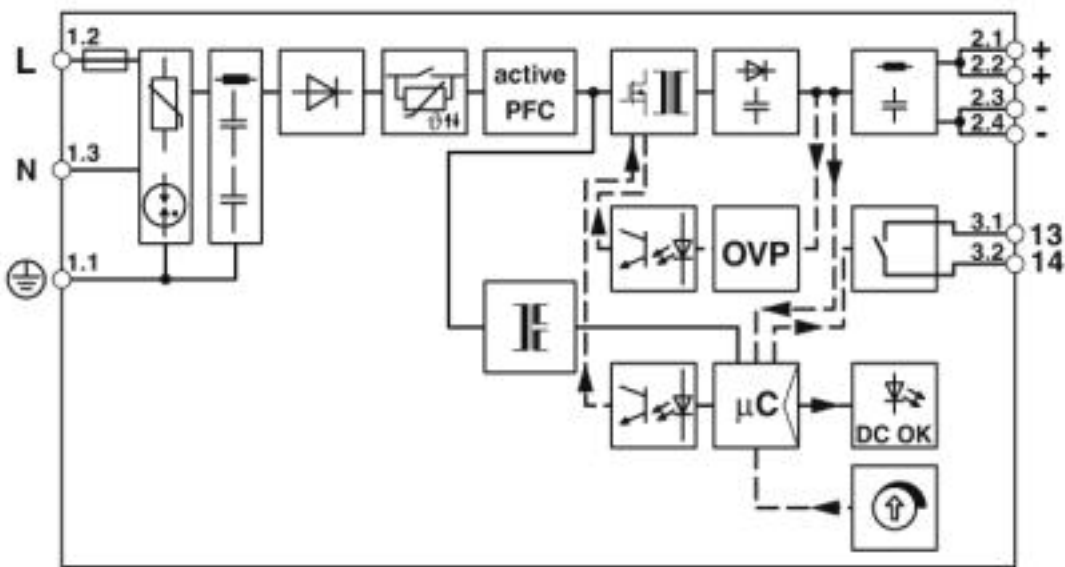
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
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Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 25;
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Block diagram



Approvals

Approvals

Approvals

IECEE CB Scheme / UL Listed / cUL Listed / cULus Listed

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approval details

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Approvals

IECEE CB Scheme



<http://www.iecee.org/>

SI-7397

UL Listed



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 123528

cUL Listed



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 123528

cULus Listed



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