

# UNO-PS/1AC/24DC/100W


Order No.: 2902993



<http://eshop.phoenixcontact.sk/phoenix/treeViewClick.do?UID=2902993>

Primary-switched UNO power supply for DIN rail mounting, input: single-phase, output: 24 V DC/100 W



Commercial data	
EAN	 4 046356 729215
Pack	1 pcs.
Customs tariff	85044030
Gross weight in pieces	0.30 kg
Catalog page information	Page 185 (C-6-2013)

## Product notes

WEEE/RoHS-compliant since:  
19.03.2012



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## Product description

UNO POWER power supplies – compact with basic functionality

Thanks to their high power density, compact UNO POWER power supplies offer the ideal solution for loads up to 100 W, particularly in compact control boxes. Their high degree of efficiency and low idling losses ensure a high level of energy efficiency.

## Technical data

### Dimensions

Width	55 mm
Height	90 mm
Depth	84 mm

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C (> 55° C derating)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	≤ 95 % (at 25 °C, non-condensing)
Noise immunity	EN 61000-6-2:2005

### Input data

Input voltage range	85 V AC ... 264 V AC
AC frequency range	45 Hz ... 65 Hz
Current consumption	1.7 A (120 V AC) 1 A (230 V AC)
Inrush surge current	< 40 A (typical)
Power failure bypass	> 20 ms (120 V AC) > 100 ms (230 V AC)
Input fuse	4 A (slow-blow, internal)
Choice of suitable fuses	6 A ... 16 A (Characteristics B, C, D, K)
Type of protection	Transient surge protection
Protective circuit/component	Varistor

### Output data

Nominal output voltage	24 V DC ±1%
Output current	4.2 A (-25°C ... 55°C)
Derating	55 °C ... 70 °C (2.5%/K)
Connection in parallel	Yes, for redundancy and increased capacity
Connection in series	Yes
Control deviation	< 1 % (change in load, static 10 % ... 90 %) < 2 % (Dynamic load change 10 % ... 90 %, 10 Hz) < 0.1 % (change in input voltage ±10 %)
Residual ripple	PP (with nominal values)

Maximum power dissipation NO-Load	< 0.5 W
Power loss nominal load max.	< 11 W

**General**

Net weight	0.34 kg
Efficiency	> 90 % (for 230 V AC and nominal values)
Insulation voltage input/output	4 kV AC (type test) 3 kV AC (routine test)
Protection class	II (in closed control cabinet)
MTBF (IEC 61709, SN 29500)	> 738500 h (According to EN 29500)
Mounting position	horizontal DIN rail NS 35, EN 60715
Assembly instructions	Alignable: 0 mm horizontally, 30 mm vertically
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Low Voltage Directive	Conformance with LV directive 2006/95/EC
Standard – Electrical equipment of machines	EN 60204-1
Standard - Electrical safety	IEC 60950-1/VDE 0805 (SELV)
Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations	EN 50178/VDE 0160 (PELV)
Standard – Safety extra-low voltage	IEC 60950-1 (SELV) and EN 60204 (PELV)
Standard - Safe isolation	DIN VDE 0100-410
Standard – Protection against electric shock	DIN 57100-410
Standard – Limitation of mains harmonic currents	EN 61000-3-2
Approval - requirement of the semiconductor industry with regard to mains voltage dips	EN 61000-4-11
Information technology equipment - safety (CB scheme)	CB Scheme
UL approvals	UL Listed UL 508 UL/C-UL Recognized UL 60950

**Connection data, input**

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	14

Stripping length	8 mm
Screw thread	M3

**Connection data, output**

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	14
Stripping length	8 mm

**Signaling**

Output name	LED status indicator
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**Certificates**



Certification

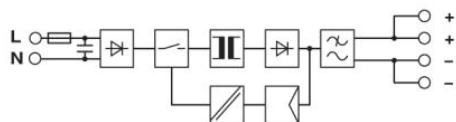
cULus Listed, cULus Recognized, IEC/IECEE CB Scheme

Certifications applied for:

Certification Ex:

**Drawings**

Block diagram



**Address**

PHOENIX CONTACT, s.r.o.  
Mokráň záhon 4  
821 04 Bratislava, Slovakia  
Phone +420 542 213 401  
Fax +421 2 3210 1479  
<http://www.phoenixcontact.sk>

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