

# Power supply unit - UNO-PS/1AC/12DC/ 55W - 2902999

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Primary-switched UNO power supply for DIN rail mounting, input: single-phase, output: 12 V DC/55 W

## 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.

## Product Features

- ✓ Flexible mounting by simply snapping onto the DIN rail
- ✓ More space in the control cabinet with up to 20 % higher power density
- ✓ Maximum energy efficiency, thanks to over 90 % efficiency and extremely low idling losses under 0.3 W



## Key commercial data

package_quantity	1
GTIN	4046356728805

## Technical data

### Dimensions

Width	35 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 A (120 V AC)
Current consumption	0.6 A (230 V AC)

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## Technical data

### Input data

Inrush surge current	< 30 A (typical)
Power failure bypass	> 20 ms (120 V AC)
Power failure bypass	> 90 ms (230 V AC)
Input fuse	2 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	12 V DC $\pm 1\%$
Output current	4.6 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 %)
Control deviation	< 3 % (Dynamic load change 10 % ... 90 %, 10 Hz)
Control deviation	< 0.1 % (change in input voltage $\pm 10\%$ )
Residual ripple	< 30 mV <sub>PP</sub> (with nominal values)
Maximum power dissipation NO-Load	< 0.3 W
Power loss nominal load max.	< 8 W

### General

Net weight	0.2 kg
Efficiency	> 89 % (for 230 V AC and nominal values)
Insulation voltage input/output	4 kV AC (type test)
Insulation voltage input/output	3 kV AC (routine test)
Protection class	II (in closed control cabinet)
MTBF (IEC 61709, SN 29500)	865215 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

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## Technical data

### General

<b>Information technology equipment - safety (CB scheme)</b>	CB Scheme
<b>UL approvals</b>	UL Listed UL 508
<b>UL approvals</b>	UL/C-UL Recognized UL 60950

### Connection data, input

<b>Connection method</b>	Screw connection
<b>Conductor cross section solid min.</b>	0.2 mm <sup>2</sup>
<b>Conductor cross section solid max.</b>	2.5 mm <sup>2</sup>
<b>Conductor cross section stranded min.</b>	0.2 mm <sup>2</sup>
<b>Conductor cross section stranded max.</b>	2.5 mm <sup>2</sup>
<b>Conductor cross section AWG/kcmil min.</b>	24
<b>Conductor cross section AWG/kcmil max</b>	14
<b>Stripping length</b>	8 mm
<b>Screw thread</b>	M3

### Connection data, output

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

### Signaling

<b>Output name</b>	LED status indicator
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## classifications

### eCl@ss

<b>eCl@ss 4.0</b>	27040702
<b>eCl@ss 4.1</b>	27040702
<b>eCl@ss 5.0</b>	27049002
<b>eCl@ss 5.1</b>	27049002
<b>eCl@ss 6.0</b>	27049002
<b>eCl@ss 7.0</b>	27049002
<b>eCl@ss 8.0</b>	27049002

### ETIM

<b>ETIM 3.0</b>	EC001039
<b>ETIM 4.0</b>	EC000599
<b>ETIM 5.0</b>	EC002540

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## classifications

### UNSPSC

UNSPSC 6.01	30211502
UNSPSC 7.0901	39121004
UNSPSC 11	39121004
UNSPSC 12.01	39121004
UNSPSC 13.2	39121004

## approvals

UL Recognized / UL Listed / cUL Recognized / cUL Listed / cULus Recognized / cULus Listed /

### Approval details

UL Recognized

UL Listed

cUL Recognized

cUL Listed

cULus Recognized

cULus Listed

## accessories

### Redundancy module

# Power supply unit - UNO-PS/1AC/12DC/ 55W - 2902999

accessories

UNO-DIODE/5-24DC/2X10/1X20 - 2905489



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## Drawings

Block diagram

