



**Automatización Eléctrica**  
Especialistas en Automatización

At the end of this document you will find links to products related to this catalog. You can go directly to our shop by clicking [HERE](#). [HERE](#)

# Power supply unit - UNO-PS/1AC/24DC/ 60W - 2902992

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Primary-switched UNO POWER power supply for DIN rail mounting, input: 1-phase, output: 24 V DC/60 W

## Product Description

UNO POWER power supplies with basic functionality

Thanks to their high power density, compact UNO POWER power supplies are the ideal solution for loads up to 100 W, particularly in compact control boxes. The power supply units are available in various performance classes and overall widths. Their high degree of efficiency and low idling losses ensure a high level of energy efficiency.

### Why buy this product

- 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

|              |                 |
|--------------|-----------------|
| Packing unit | 1 STK           |
| GTIN         | 4 046356 729208 |

## 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 : 2.5%/K) |
| 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

# Power supply unit - UNO-PS/1AC/24DC/ 60W - 2902992

## Technical data

### Input data

|                                     |   |
|-------------------------------------|---|
| Nominal input voltage range         | 100 V AC ... 240 V AC                     |
| Input voltage range                 | 85 V AC ... 264 V AC                      |
| AC frequency range                  | 45 Hz ... 65 Hz                           |
| Inrush surge current                | < 30 A (typical)                          |
| Power failure bypass                | > 20 ms (120 V AC)                        |
|                                     | > 85 ms (230 V AC)                        |
| Input fuse                          | 2.5 A (slow-blow, internal)               |
| Choice of suitable circuit breakers | 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 $\pm 1$ %                                |
| Nominal output current                         | 2.5 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 $\pm 10$ %)     |
| Residual ripple                                | < 30 mV <sub>PP</sub> (with nominal values)      |
| Output power                                   | 60 W   |
| Typical response time                          | < 1 s  |
| Maximum power dissipation in no-load condition | < 0.3 W  |
| Power loss nominal load max.                   | < 7 W  |

### General

|                                  |  |
|----------------------------------|--|
| Net weight                       | 0.2 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)                 |
| MTTF/ MTBF (IEC 61709, SN 29500) | > 785000 h (40°C)                              |
| Mounting position                | horizontal DIN rail NS 35, EN 60715            |
| Assembly instructions            | Alignable: 0 mm horizontally, 30 mm vertically |

### 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 flexible min. | 0.2 mm <sup>2</sup> |
| Conductor cross section flexible max. | 2.5 mm <sup>2</sup> |

# Power supply unit - UNO-PS/1AC/24DC/ 60W - 2902992

## Technical data

### Connection data, input

|                                  |      |
|----------------------------------|------|
| Conductor cross section AWG min. | 24   |
| Conductor cross section AWG 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 flexible min. | 0.2 mm <sup>2</sup> |
| Conductor cross section flexible max. | 2.5 mm <sup>2</sup> |
| Conductor cross section AWG min.      | 24                  |
| Conductor cross section AWG max.      | 14                  |
| Stripping length                      | 8 mm                |
| Screw thread                          | M3                  |

## Standards and Regulations

|  |  |
|--|--|
| Electromagnetic compatibility  | Conformance with EMC Directive 2004/108/EC   |
| Shock  | 30g in each direction, according to IEC 60068-2-27                                   |
| Noise immunity   | EN 61000-6-2:2005  |
| Connection in acc. with standard   | CUL  |
| Standards/regulations  | EN 61000-4-3   |
|  | EN 61000-4-4   |
|  | EN 61000-4-6   |
| 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 60204-1 (PELV)   |
| Standard - Safe isolation  | DIN VDE 0100-410   |
| Standard – Limitation of mains harmonic currents   | EN 61000-3-2   |
| UL approvals   | UL Listed UL 508   |
|  | UL/C-UL Recognized UL 60950  |
|  | NEC Class 2 as per UL 1310   |
|  | UL ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D T4A (Hazardous Location) |
| Vibration (operation)  | < 15 Hz, amplitude ±2.5 mm (according to IEC 60068-2-6)                              |
| Low Voltage Directive  | Conformance with LV directive 2006/95/EC   |
| Approval - requirement of the semiconductor industry with regard to mains voltage dips   | EN 61000-4-11  |
| Information technology equipment - safety (CB scheme)  | CB Scheme  |

# Power supply unit - UNO-PS/1AC/24DC/ 60W - 2902992

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27040702 |
| eCl@ss 4.1 | 27040702 |
| eCl@ss 5.0 | 27049002 |
| eCl@ss 5.1 | 27049002 |
| eCl@ss 6.0 | 27049002 |
| eCl@ss 7.0 | 27049002 |
| eCl@ss 8.0 | 27049002 |
| eCl@ss 9.0 | 27040701 |

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC001039 |
| ETIM 4.0 | EC000599 |
| ETIM 5.0 | EC002540 |

### UNSPSC

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

## Approvals

### Approvals

---

#### Approvals

UL Recognized / UL Listed / cUL Recognized / cUL Listed / IEC CB Scheme / EAC / EAC / cULus Recognized / cULus Listed

---

#### Ex Approvals

UL Listed / cUL Listed / cULus Listed

---

#### Approvals submitted

---

### Approval details

|   |
|---|
| UL Recognized  |
|---|

# Power supply unit - UNO-PS/1AC/24DC/ 60W - 2902992

## Approvals

UL Listed

cUL Recognized

cUL Listed

IECEE CB Scheme

EAC

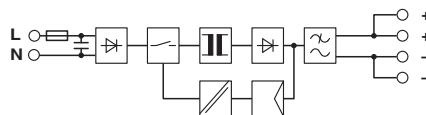
EAC

cULus Recognized

cULus Listed

## Drawings

Block diagram



Phoenix Contact 2016 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>



**Automatización Eléctrica**  
Especialistas en Automatización

Below is a list of articles with direct links to our shop Electric Automation Network where you can see:

- Quote per purchase volume in real time.
- Online documentation and datasheets of all products.
- Estimated delivery time enquiry in real time.
- Logistics systems for the shipment of materials almost anywhere in the world.
- Purchasing management, order record and tracking of shipments.

To access the product, [click on the green button.](#)

| Product   | Code    | Reference           | Product link               |
|---|---------|---------------------|----------------------------|
| Primary-switched UNO POWER power supply for DIN rail mounting, input: 1-phase, output: 24 V DC/60 W | 2902992 | UNO-PS/1AC/24DC/60W | <a href="#">Buy on EAN</a> |