

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

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Primary-switched UNO POWER power supply for DIN rail mounting, input: 1-phase, output: 12 V DC/55 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 240 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
- Outdoor installation, thanks to the wide temperature range from -25°C to +70°C



## Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 STK   |
| GTIN                                 | <br>4 046356 728805 |
| GTIN                                 | 4046356728805   |
| Weight per Piece (excluding packing) | 252.500 g   |
| Custom tariff number                 | 85044030  |
| Country of origin                    | Poland  |

## Technical data

### Dimensions

|        |       |
|--------|-------|
| Width  | 35 mm |
| Height | 90 mm |
| Depth  | 84 mm |

### Ambient conditions

|                      |      |
|----------------------|------|
| Degree of protection | IP20 |
|----------------------|------|

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### Ambient conditions

|  |  |
|--|--|
| 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

|                                     |   |
|-------------------------------------|---|
| 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                           |
| Current consumption                 | 1 A (120 V AC)                            |
|                                     | 0.6 A (230 V AC)                          |
| Inrush surge current                | < 30 A (typical)                          |
| Power failure bypass                | > 20 ms (120 V AC)                        |
|                                     | > 90 ms (230 V AC)                        |
| Input fuse                          | 2 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                         | 12 V DC ±1 %                                     |
| Nominal output current (I <sub>N</sub> )       | 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 %)     |
|  | < 3 % (Dynamic load change 10 % ... 90 %, 10 Hz) |
|  | < 0.1 % (change in input voltage ±10 %)          |
| Residual ripple                                | < 30 mV <sub>PP</sub> (with nominal values)      |
| Output power                                   | 55 W   |
| Typical response time                          | < 1 s  |
| Maximum power dissipation in no-load condition | < 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)                      |
|                                 | 3 kV AC (routine test)                   |
| Protection class                | II (in closed control cabinet)           |
| MTBF (IEC 61709, SN 29500)      | > 865000 h (40°C)                        |
| Mounting position               | horizontal DIN rail NS 35, EN 60715      |