

UNO-PS/1AC/24DC/ 30W - Power supply unit



2902991

<https://www.phoenixcontact.com/ro/produse/2902991>

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Primary-switched UNO POWER power supply for DIN rail mounting, input: 1-phase, output: 24 V DC/30 W

Descriere produs

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.

Avantajele dumneavoastră

- 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 ... +70 °C

Date comerciale

| | |
|---|-----------------------|
| Număr articol | 2902991 |
| Unitate de ambalare | 1 Bucată |
| Cantitate minimă pentru comandă | 1 Bucată |
| Cod produs | CMPU13 |
| Pagina de catalog | Pagina 266 (C-4-2019) |
| GTIN | 4046356729192 |
| Greutate pe bucată (inclusiv ambalajul) | 187,02 g |
| Greutate pe bucată (fără ambalaj) | 147 g |
| Cod tarifar vamal | 85044095 |
| Țara de origine | VN |

Date tehnic

Input data

AC operation

| | |
|--|--|
| Nominal input voltage range | 100 V AC ... 240 V AC |
| Input voltage range | 85 V AC ... 264 V AC |
| Input voltage range AC | 85 V AC ... 264 V AC |
| Voltage type of supply voltage | AC |
| Inrush current | < 30 A (typ.) |
| Inrush current integral (I^2t) | < 0.4 A ² s (typ.) |
| AC frequency range | 50 Hz ... 60 Hz |
| Frequency range (f_N) | 50 Hz ... 60 Hz \pm 10 % |
| Mains buffering time | > 25 ms (120 V AC) > 115 ms (230 V AC) |
| Current consumption | typ. 0.8 A (100 V AC) typ. 0.4 A (240 V AC) |
| Nominal power consumption | 72.1 VA |
| Protective circuit | Transient surge protection; Varistor |
| Power factor (cos phi) | 0.47 |
| Typical response time | < 1 s |
| Input fuse | 2 A (slow-blow, internal) |
| Recommended breaker for input protection | 6 A ... 16 A (Characteristics B, C, D, K) |

Output data

| | |
|--|--|
| Efficiency | typ. 87 % (120 V AC) typ. 88 % (230 V AC) |
| Output characteristic | HICCUP |
| Nominal output voltage | 24 V DC |
| Nominal output current (I_N) | 1.25 A (-25 °C ... 55 °C) |
| Derating | 55 °C ... 70 °C (2.5 %/K) |
| Feedback voltage resistance | < 35 V DC |
| Protection against overvoltage at the output (OVP) | \leq 35 V DC |
| 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 | < 60 mV _{PP} (with nominal values) |
| Short-circuit-proof | yes |
| Output power | 30 W |
| Maximum no-load power dissipation | < 0.3 W |
| Power loss nominal load max. | < 5 W |
| Rise time | < 0.5 s (U_{OUT} (10 % ... 90 %)) |
| Response time | < 2 ms |
| Connection in parallel | yes, for redundancy and increased capacity |

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| | |
|----------------------|-----|
| Connection in series | yes |
|----------------------|-----|

Connection data

Input

| | |
|--|---------------------|
| Connection method | Screw connection |
| Conductor cross section, rigid min. | 0.2 mm ² |
| Conductor cross section, rigid max. | 2.5 mm ² |
| Conductor cross section flexible min. | 0.2 mm ² |
| Conductor cross section flexible max. | 2.5 mm ² |
| Single conductor/flexible terminal point with ferrule with plastic sleeve, min. | 0.2 mm ² |
| Single conductor/flexible terminal point with ferrule with plastic sleeve, max. | 2.5 mm ² |
| Single conductor/flexible terminal point with ferrule without plastic sleeve, min. | 0.2 mm ² |
| Single conductor/flexible terminal point with ferrule without plastic sleeve, max. | 2.5 mm ² |
| Conductor cross section AWG min. | 24 |
| Conductor cross section AWG max. | 14 |
| Stripping length | 8 mm |
| Screw thread | M3 |
| Tightening torque, min | 0.5 Nm |
| Tightening torque max | 0.6 Nm |

Output

| | |
|--|---------------------|
| Connection method | Screw connection |
| Conductor cross section, rigid min. | 0.2 mm ² |
| Conductor cross section, rigid max. | 2.5 mm ² |
| Conductor cross section flexible min. | 0.2 mm ² |
| Conductor cross section flexible max. | 2.5 mm ² |
| Single conductor/flexible terminal point with ferrule with plastic sleeve, min. | 0.2 mm ² |
| Single conductor/flexible terminal point with ferrule with plastic sleeve, max. | 2.5 mm ² |
| Single conductor/flexible terminal point with ferrule without plastic sleeve, min. | 0.2 mm ² |
| Single conductor/flexible terminal point with ferrule without plastic sleeve, max. | 2.5 mm ² |
| Conductor cross section AWG min. | 24 |
| Conductor cross section AWG max. | 14 |
| Stripping length | 8 mm |
| Screw thread | M3 |
| Tightening torque, min | 0.5 Nm |
| Tightening torque max | 0.6 Nm |

Signaling

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| | |
|--------------------|-----|
| Types of signaling | LED |
|--------------------|-----|

Electrical properties

| | |
|---------------------------------|------------------------|
| Number of phases | 1.00 |
| Insulation voltage input/output | 4 kV AC (type test) |
| | 3 kV AC (routine test) |

Product properties

| | |
|----------------------------|---------------------|
| Product type | Power supply |
| Product family | UNO POWER |
| MTBF (IEC 61709, SN 29500) | > 1158000 h (40 °C) |

Data management status

| | |
|------------------|----|
| Article revision | 04 |
|------------------|----|

Insulation characteristics

| | |
|---------------------|--------------------------------|
| Protection class | II (in closed control cabinet) |
| Degree of pollution | 2 |

Dimensions

| | |
|--------|---------|
| Width | 22.5 mm |
| Height | 90 mm |
| Depth | 84 mm |

Installation dimensions

| | |
|----------------------------------|---------------|
| Installation distance right/left | 0 mm / 0 mm |
| Installation distance top/bottom | 30 mm / 30 mm |

Mounting

| | |
|-------------------------|--|
| Mounting type | DIN rail mounting |
| Assembly note | alignable: 0 mm horizontally, 30 mm vertically |
| Mounting position | horizontal DIN rail NS 35, EN 60715 |
| With protective coating | No |

Material specifications

| | |
|--|------------------------|
| Flammability rating according to UL 94 (housing / terminal blocks) | V0 |
| Housing material | Plastic |
| Housing material | Polycarbonate |
| Foot latch material | POM (Polyoxymethylene) |

Environmental and real-life conditions

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 |

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| | |
|--|--|
| Ambient temperature (start-up type tested) | -40 °C |
| Climatic class | 3K22 (in accordance with EN 60721-3-3) |
| Max. permissible relative humidity (operation) | ≤ 95 % (at 25 °C, non-condensing) |
| Shock | 18 ms, 30g, in each space direction (according to IEC 60068-2-27) |
| Vibration (operation) | < 15 Hz, amplitude ±2.5 mm (according to IEC 60068-2-6) 15 Hz ... 150 Hz, 2.3g, 90 min. |

Standards and regulations

| | |
|--|--|
| Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations | EN 50178/VDE 0160 (PELV) |
| Standard – Limitation of mains harmonic currents | EN 61000-3-2 |
| Standard - Electrical safety | IEC 62368-1 (SELV) |
| Standard – Safety extra-low voltage | IEC 62368-1 (SELV) und EN 60204-1 (PELV) |
| Standard - Safe isolation | DIN VDE 0100-410 |
| Standard - Safety of transformers | EN 61558-2-16 |
| Approval - requirement of the semiconductor industry with regard to mains voltage dips | EN 61000-4-11 |

Mains voltage dips

| | |
|--------------------------|---|
| Standard designation | Requirement of the semiconductor industry with regard to mains voltage dips |
| Standards/specifications | SEMI F47 - 0706 (180 V AC) |

Approvals

| | |
|--------------|---|
| CSA | CAN/CSA-C22.2 No. 60950-1-07 |
| | CSA-C22.2 No. 107.1-01 |
| | CAN/CSA-C22.2 No. 213 Class I, Division 2, Groups A, B, C, D T4 (Hazardous Location) |
| UL approvals | UL/C-UL listed UL 508 |
| | NEC Class 2 as per UL 1310 |
| | UL/C-UL Listed ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D T4 (Hazardous Location) |
| | UL/C-UL Recognized UL 60950-1 |

Conformity/Approvals

| | |
|--|---------|
| SIL in accordance with IEC 61508 | 0 |
| Performance level according to ISO 13849 | without |

EMC data

| | |
|-------------------------------------|---|
| Low Voltage Directive | Conformance with Low Voltage Directive 2014/35/EC |
| EMC requirements for noise emission | EN 61000-6-3 |
| | EN 61000-6-4 |
| EMC requirements for noise immunity | EN 61000-6-1 |
| | EN 61000-6-2 |
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |

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Electrostatic discharge

| | |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-2 |
|-----------------------|--------------|

Electrostatic discharge

| | |
|-------------------|---------------------|
| Contact discharge | 6 kV (Test Level 3) |
| Discharge in air | 8 kV (Test Level 3) |
| Comments | Criterion B |

Electromagnetic HF field

| | |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-3 |
|-----------------------|--------------|

Electromagnetic HF field

| | |
|---------------------|-----------------------|
| Frequency range | 80 MHz ... 1 GHz |
| Test field strength | 10 V/m (Test Level 3) |
| Frequency range | 1 GHz ... 6 GHz |
| Test field strength | 10 V/m (Test Level 3) |
| Comments | Criterion A |

Fast transients (burst)

| | |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-4 |
|-----------------------|--------------|

Fast transients (burst)

| | |
|----------|------------------------------------|
| Input | 4 kV (Test Level 4 - asymmetrical) |
| Output | 2 kV (Test Level 3 - asymmetrical) |
| Comments | Criterion B |

Surge voltage load (surge)

| | |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-5 |
|-----------------------|--------------|

Surge voltage load (surge)

| | |
|----------|-------------------------------------|
| Input | 1 kV (Test Level 2 - symmetrical) |
| | 2 kV (Test Level 3 - asymmetrical) |
| Output | 0.5 kV (Test Level 1 - symmetrical) |
| | 1 kV (Test Level 2 - asymmetrical) |
| Comments | Criterion B |

Conducted interference

| | |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-6 |
|-----------------------|--------------|

Conducted interference

| | |
|-----------------|---------------------|
| Input/Output | asymmetrical |
| Frequency range | 0.15 MHz ... 80 MHz |
| Comments | Criterion A |
| Voltage | 10 V (Test Level 3) |

Voltage dips

| | |
|-----------------------|---------------|
| Standards/regulations | EN 61000-4-11 |
| Voltage | 230 V AC |

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| | |
|-------------------|-------------|
| Frequency | 50 Hz |
| Voltage dip | 70 % |
| Number of periods | 25 periods |
| Additional text | Class 3 |
| Comments | Criterion A |
| Voltage dip | 40 % |
| Number of periods | 10 periods |
| Additional text | Class 3 |
| Comments | Criterion A |
| Voltage dip | 0 % |
| Number of periods | 1 period |
| Additional text | Class 3 |
| Comments | Criterion A |

Emitted interference

| | |
|--|---|
| Standards/regulations | EN 61000-6-3 |
| Radio interference voltage in acc. with EN 55011 | EN 55011 (EN 55022) class B used in industry and residential area / EMC 1 |
| Emitted radio interference in acc. with EN 55011 | EN 55011 (EN 55022) class B used in industry and residential area / EMC 1 |

Criteria

| | |
|-------------|--|
| Criterion A | Normal operating behavior within the specified limits. |
| Criterion B | Temporary impairment to operational behavior that is corrected by the device itself. |

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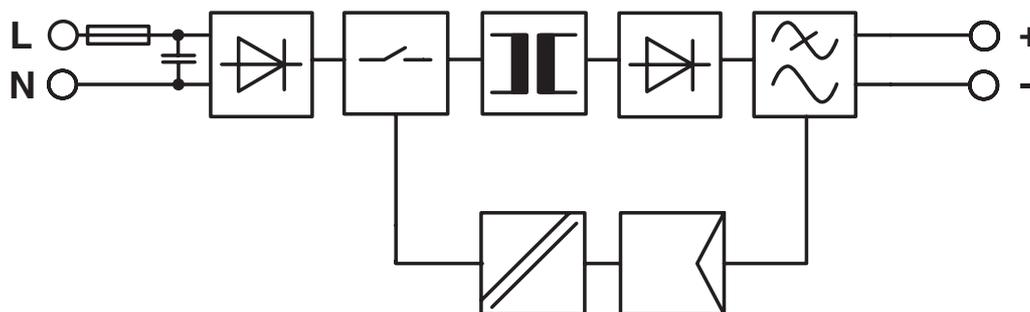


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Desene

Block diagram



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<https://www.phoenixcontact.com/ro/produse/2902991>

Aprobări

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/ro/produse/2902991>



cUL Recognized

ID de înregistrare: FILE E 214596



UL Recognized

ID de înregistrare: FILE E 214596



IECEE CB Scheme

ID de înregistrare: DK-30305-A3-M1-UL



EAC

ID de înregistrare: EAC-Zulassung



EAC

ID de înregistrare: RU S-DE.BL08.W.00764



EAC

ID de înregistrare: RU S-DE.BL08.W.00764



cULus Listed

ID de înregistrare: FILE E 123528



IECEE CB Scheme

ID de înregistrare: DE/PTZ/0119/A1



cUL Listed

ID de înregistrare: FILE E 199827



UL Listed

ID de înregistrare: E199827

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Clasificări

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27040701 |
| ECLASS-13.0 | 27040701 |
| ECLASS-12.0 | 27040701 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC002540 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121000 |
|-------------|----------|

Environmental product compliance

EU RoHS

| | |
|--|--------------|
| Îndeplinește cerințele conform directivei RoHS | Da |
| reglementări excepționale, dacă sunt cunoscute | 6(c), 7(c)-I |

China RoHS

| | |
|--|--|
| Environment friendly use period (EFUP) | EFUP-25 |
| | Un tabel de declarații China RoHS legat de articol poate fi găsit în zona de descărcare a articolului respectiv la „Declarația producătorului”. Nu se emite și nu este necesar niciun tabel de declarații China RoHS pentru toate articolele EFUP-E. |

EU REACH SVHC

| | |
|--|--------------------------------------|
| Trimitere la substanța candidată REACH (nr. CAS) | Lead(nr. CAS: 7439-92-1) |
| SCIP | 05b42b3b-0bf7-4e8c-94e6-1ecaf9319514 |

EF3.0 Climate Change

| | |
|---------|---------------|
| CO2e kg | 3,657 kg CO2e |
|---------|---------------|

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Accesorii

UNO-DIODE/5-24DC/2X10/1X20 - Redundancy module

2905489

<https://www.phoenixcontact.com/ro/produse/2905489>

Redundancy module, 5 V - 24 V DC, 2 x 10 A, 1 x 20 A.



CBMC E4 24DC/1-4A NO - Electronic circuit breaker

2906031

<https://www.phoenixcontact.com/ro/produse/2906031>

Multi-channel electronic circuit breaker for protecting four loads at 24 V DC in the event of overload and short circuit. With electronic locking of the set nominal currents. For installation on DIN rails.



UNO-PS/1AC/24DC/ 30W - Power supply unit

2902991

<https://www.phoenixcontact.com/ro/produse/2902991>



CBMC E4 24DC/1-10A NO - Electronic circuit breaker

2906032

<https://www.phoenixcontact.com/ro/produse/2906032>



Multi-channel electronic circuit breaker for protecting four loads at 24 V DC in the event of overload and short circuit. With electronic locking of the set nominal currents. For installation on DIN rails.

PLT-SEC-T3-230-FM-UT - Type 3 surge protection device

2907919

<https://www.phoenixcontact.com/ro/produse/2907919>



Type 2/3 surge protection, consisting of protective plug and base element with screw connection. For single-phase power supply network with integrated status indicator and remote signaling. Nominal voltage: 230 V AC/DC

UNO-PS/1AC/24DC/ 30W - Power supply unit

2902991

<https://www.phoenixcontact.com/ro/produse/2902991>



PLT-SEC-T3-24-FM-UT - Type 3 surge protection device

2907916

<https://www.phoenixcontact.com/ro/produse/2907916>



Type 3 surge protection, consisting of protective plug and base element, with integrated status indicator and remote signaling for single-phase power supply networks. Nominal voltage: 24 V AC/DC

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