

1234304

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Primary-switched power supply unit, ESSENTIAL POWER, Screw connection, DIN rail mounting, input: 1-phase, output: 24 V DC / 10 A, adjustable from 24 V DC ... 28 V DC

Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1234304       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | CMB           |
| Product key                          | CMB313        |
| GTIN                                 | 4063151338039 |
| Weight per piece (including packing) | 970 g         |
| Weight per piece (excluding packing) | 855 g         |
| Customs tariff number                | 85044095      |
| Country of origin                    | CN            |

# PS-EE-2G/1AC/24DC/240W/SC - Power supply unit



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## Technical data

### Input data

#### AC operation

|                                          |                                                                                                                                                                            |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supply system configuration              | TN, TT, IT (PE)                                                                                                                                                            |
| Nominal input voltage range              | 100 V AC ... 240 V AC                                                                                                                                                      |
| Input voltage range                      | 110 V AC ... 240 V AC $\pm 10\%$ ( $P_N = 240\text{ W}$ )<br>100 V AC ... 109 V AC $-15\%$ ... $+10\%$ ( $P_N = 200\text{ W}$ )                                            |
| Typical national grid voltage            | 120 V AC<br>230 V AC                                                                                                                                                       |
| Voltage type of supply voltage           | AC                                                                                                                                                                         |
| Inrush current                           | typ. 30 A (at 25 °C)                                                                                                                                                       |
| Inrush current integral ( $I^2t$ )       | typ. 0.2 A <sup>2</sup> s                                                                                                                                                  |
| Frequency range ( $f_N$ )                | 50 Hz ... 60 Hz $\pm 10\%$                                                                                                                                                 |
| Mains buffering time                     | typ. 30 ms (120 V AC)<br>typ. 30 ms (230 V AC)                                                                                                                             |
| Current consumption                      | max. 3 A (240 W)<br>max. 2.5 A (200 W)<br>typ. 2.4 A (110 V AC (240 W))<br>typ. 1.2 A (240 V AC (240 W))<br>typ. 2.4 A (100 V AC (200 W))<br>typ. 2.3 A (109 V AC (200 W)) |
| Protective circuit                       | Transient protection; Varistor                                                                                                                                             |
| Switch-on time                           | typ. 1 s                                                                                                                                                                   |
| Device mains fuse                        | 5 A internal (device protection), fast-blow                                                                                                                                |
| Recommended breaker for input protection | 6 A ... 16 A (Characteristic B, C, D, K or comparable)                                                                                                                     |
| Discharge current to PE                  | < 3.5 mA                                                                                                                                                                   |

### Output data

|                                                   |                                                                            |
|---------------------------------------------------|----------------------------------------------------------------------------|
| Efficiency                                        | typ. 91 % (120 V AC)<br>typ. 92 % (230 V AC)                               |
| Nominal output voltage                            | 24 V DC                                                                    |
| Setting range of the output voltage ( $U_{Set}$ ) | 24 V DC ... 28 V DC (> 24 V DC, constant capacity restricted)              |
| Nominal output current ( $I_N$ )                  | max. 10 A ( $P_N = 240\text{ W}$ )<br>max. 8.33 A ( $P_N = 200\text{ W}$ ) |
| Short-circuit-proof                               | yes                                                                        |
| No-load proof                                     | yes                                                                        |
| Crest factor                                      | typ. 1.5 (120 V AC)<br>typ. 1.9 (230 V AC)                                 |
| Output power ( $P_N$ )                            | 240 W (240 V AC)<br>200 W (100 V AC)                                       |
| Connection in parallel                            | yes, for increasing power and redundancy with diode                        |
| Connection in series                              | yes, for increased output voltage                                          |

# PS-EE-2G/1AC/24DC/240W/SC - Power supply unit



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|                                                    |                                                |
|----------------------------------------------------|------------------------------------------------|
| Feedback voltage resistance                        | ≤ 35 V DC                                      |
| Protection against overvoltage at the output (OVP) | ≤ 35 V DC                                      |
| Residual ripple                                    | typ. 70 mV <sub>PP</sub> (with nominal values) |
| Control deviation                                  | < 2 % (change in load, static 10 % ... 90 %)   |
|                                                    | < 4 % (change in load, dynamic 10 % ... 90 %)  |
|                                                    | < 0.1 % (change in input voltage ±10 %)        |
| Rise time                                          | < 100 ms (U <sub>Out</sub> = 10 % ... 90 %)    |
| Minimum no-load power dissipation                  | < 3 W (120 V AC)                               |
| Maximum no-load power dissipation                  | < 3 W (230 V AC)                               |
| Minimum nominal load power dissipation             | < 24 W (120 V AC)                              |
| Power loss nominal load max.                       | < 20 W (230 V AC)                              |
| Integrated fuse protection                         | no                                             |

## Connection data

### Input

|                |                                                                                                                                                                                                                                                                                          |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Position       | 1.x                                                                                                                                                                                                                                                                                      |
| Identification | 1.1 (⊕, ⊖,  ,  ,  , 1.3 (N)) |

### Conductor connection

|                                              |                                                   |
|----------------------------------------------|---------------------------------------------------|
| Connection method                            | Screw connection                                  |
| rigid                                        | 0.75 mm² ... 2.5 mm²                              |
| flexible                                     | 0.75 mm² ... 2.5 mm²                              |
| flexible with ferrule without plastic sleeve | 0.75 mm² ... 2.5 mm²                              |
| flexible with ferrule with plastic sleeve    | 0.75 mm² ... 2.5 mm²                              |
| rigid (AWG)                                  | 18 ... 14 (Cu)                                    |
| Stripping length                             | 6.5 mm                                            |
| Tightening torque                            | 0.5 Nm ... 0.6 Nm                                 |
|                                              | 5 lb <sub>F</sub> -in. ... 7 lb <sub>F</sub> -in. |
| Drive form screw head                        | Slotted L                                         |

### Output

|                |                            |
|----------------|----------------------------|
| Position       | 2.x                        |
| Identification | 2.1, 2.2 (+), 2.3, 2.4 (-) |

### Conductor connection

|                                              |                                                   |
|----------------------------------------------|---------------------------------------------------|
| Connection method                            | Screw connection                                  |
| rigid                                        | 1.5 mm² ... 2.5 mm²                               |
| flexible                                     | 1.5 mm² ... 2.5 mm²                               |
| flexible with ferrule without plastic sleeve | 1.5 mm² ... 2.5 mm²                               |
| flexible with ferrule with plastic sleeve    | 1.5 mm² ... 2.5 mm²                               |
| rigid (AWG)                                  | 16 ... 14 (Cu)                                    |
| Stripping length                             | 6.5 mm                                            |
| Tightening torque                            | 0.5 Nm ... 0.6 Nm                                 |
|                                              | 5 lb <sub>F</sub> -in. ... 7 lb <sub>F</sub> -in. |
| Drive form screw head                        | Slotted L                                         |

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## Signaling

### LED signaling

|                       |                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------|
| Types of signaling    | LED DC OK – signal state operation ( $U_N = 24 \text{ V DC}$ , $I_{\text{Out}} = I_N$ ) |
| Function              | Visual operating state display                                                          |
| Color                 | green                                                                                   |
| LED off               | Supply voltage input AC not present (Off)                                               |
| LED on (green), DC OK | $U_{\text{OUT}} > 11 \text{ V}$ (On (green), DC OK)                                     |

## Electrical properties

|                                 |                          |
|---------------------------------|--------------------------|
| Number of phases                | 1.00                     |
| Insulation voltage input/output | 4 kV AC (type test)      |
|                                 | 3 kV AC (routine test)   |
| Insulation voltage input / PE   | 3.5 kV AC (type test)    |
|                                 | 2.4 kV AC (routine test) |

## Product properties

|                         |                     |
|-------------------------|---------------------|
| Product type            | Power supply        |
| Product family          | ESSENTIAL POWER     |
| MTBF (Telcordia SR-332) | > 1170000 h (25 °C) |
|                         | > 800000 h (40 °C)  |
|                         | > 700000 h (45 °C)  |

### Data management status

|                  |    |
|------------------|----|
| Article revision | 01 |
|------------------|----|

### Insulation characteristics

|                     |   |
|---------------------|---|
| Protection class    | I |
| Degree of pollution | 2 |

### Life expectancy (electrolytic capacitors)

|                 |          |
|-----------------|----------|
| Current         | 10 A     |
| Temperature     | 40 °C    |
| Time            | 23000 h  |
| Additional text | 120 V AC |

### Life expectancy (electrolytic capacitors)

|                 |          |
|-----------------|----------|
| Current         | 10 A     |
| Temperature     | 30 °C    |
| Time            | 46000 h  |
| Additional text | 120 V AC |

### Life expectancy (electrolytic capacitors)

|             |         |
|-------------|---------|
| Current     | 10 A    |
| Temperature | 40 °C   |
| Time        | 31000 h |

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|                                           |          |
|-------------------------------------------|----------|
| Additional text                           | 230 V AC |
| Life expectancy (electrolytic capacitors) |          |
| Current                                   | 10 A     |
| Temperature                               | 30 °C    |
| Time                                      | 60000 h  |
| Additional text                           | 230 V AC |

## Dimensions

### Item dimensions

|        |        |
|--------|--------|
| Width  | 60 mm  |
| Height | 124 mm |
| Depth  | 125 mm |

### Installation dimensions

|                                  |               |
|----------------------------------|---------------|
| Installation distance right/left | 10 mm / 10 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

|                      |                                             |
|----------------------|---------------------------------------------|
| Housing material     | Metal                                       |
| Housing material     | Aluminum (AlMg3) / sheet steel, zinc-plated |
| Hood version         | Stainless steel                             |
| Side element version | Aluminum                                    |
| Foot latch material  | Sheet steel, zinc-plated                    |

## Environmental and real-life conditions

### Ambient conditions

|                                                |                                                    |
|------------------------------------------------|----------------------------------------------------|
| Degree of protection                           | IP20                                               |
| Ambient temperature (operation)                | -20 °C ... 70 °C (Derating >45°C: 2.5%/K)          |
| Ambient temperature (storage/transport)        | -40 °C ... 85 °C                                   |
| Maximum altitude                               | ≤ 3000 m (> 2000 m, Derating: 10 %/1000 m)         |
| Climatic class                                 | 3K22 (in accordance with EN 60721-3-3)             |
| Max. permissible relative humidity (operation) | ≤ 95 % (at 25 °C, non-condensing)                  |
| Shock (operation)                              | 15 ms, 15g, per spatial direction (IEC 60068-2-27) |
| Vibration (operation)                          | 10 Hz ... 50 Hz, amplitude ±0.2 mm                 |
|                                                | 50 Hz ... 150 Hz, 2.3g, 90 min.                    |

## Standards and regulations

# PS-EE-2G/1AC/24DC/240W/SC - Power supply unit



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## Overvoltage category

|            |                     |
|------------|---------------------|
| EN 61010-1 | II ( $\leq 3000$ m) |
|------------|---------------------|

## Electrical safety

|                          |                        |
|--------------------------|------------------------|
| Standard designation     | Electrical safety      |
| Standards/specifications | IEC 61010-2-201 (SELV) |

## Electronic equipment for use in power installations

|                          |                                                                |
|--------------------------|----------------------------------------------------------------|
| Standard designation     | Equipping high voltage installations with electronic equipment |
| Standards/specifications | EN 50178/VDE 0160 (PELV)                                       |

## Safety for measurement, control, and laboratory equipment

|                          |                                                                   |
|--------------------------|-------------------------------------------------------------------|
| Standard designation     | Safety for equipment for measurement, control, and laboratory use |
| Standards/specifications | IEC 61010-1                                                       |

## Protective extra-low voltage

|                          |                              |
|--------------------------|------------------------------|
| Standard designation     | Protective extra-low voltage |
| Standards/specifications | IEC 61010-1 (SELV)           |
|                          | IEC 61010-2-201 (PELV)       |

## Limitation of harmonic line currents

|                          |                                      |
|--------------------------|--------------------------------------|
| Standard designation     | Limitation of harmonic line currents |
| Standards/specifications | EN 61000-3-2                         |

## Safe isolation

|                          |                |
|--------------------------|----------------|
| Standard designation     | Safe isolation |
| Standards/specifications | IEC 61558-2-16 |
| Note                     | Transformer    |

## Mains voltage dips

|                          |                                                                             |
|--------------------------|-----------------------------------------------------------------------------|
| Standard designation     | Requirement of the semiconductor industry with regard to mains voltage dips |
| Standards/specifications | SEMI F47 - 0706 (185 V AC)                                                  |

## Approvals

### UL

|                |                           |
|----------------|---------------------------|
| Identification | UL/C-UL Listed UL 61010-1 |
|----------------|---------------------------|

### UL

|                |                               |
|----------------|-------------------------------|
| Identification | UL/C-UL Listed UL 61010-2-201 |
|----------------|-------------------------------|

### CB scheme

|                |                                          |
|----------------|------------------------------------------|
| Identification | CB scheme (IEC 61010-1, IEC 61010-2-201) |
|----------------|------------------------------------------|

## EMC data

|                       |                                                   |
|-----------------------|---------------------------------------------------|
| Low Voltage Directive | Conformance with Low Voltage Directive 2014/35/EC |
|-----------------------|---------------------------------------------------|

# PS-EE-2G/1AC/24DC/240W/SC - Power supply unit



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|                                     |                                                                                                                  |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Interference emission               | Interference emission in accordance with EN 61000-6-3 (residential and commercial) and EN 61000-6-4 (industrial) |
| EMC requirements for noise immunity | EN 61000-6-2                                                                                                     |
| Electromagnetic compatibility       | Conformance with EMC Directive 2014/30/EU                                                                        |
| Conducted noise emission            | EN 55016<br>EN 61000-6-3 (Class B)                                                                               |
| Noise emission                      | EN 55016<br>EN 61000-6-3 (Class B)                                                                               |

## Harmonic currents

|                       |                                        |
|-----------------------|----------------------------------------|
| Standards/regulations | EN 61000-3-2<br>EN 61000-3-2 (Class A) |
| Frequency range       | 0 kHz ... 2 kHz                        |

## 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 A         |

## 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) |
| Frequency range     | 2 GHz ... 3 GHz       |
| Test field strength | 1 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 A                        |

## Surge voltage load (surge)

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

## Surge voltage load (surge)

|       |                                                                         |
|-------|-------------------------------------------------------------------------|
| Input | 1 kV (Test Level 3 - symmetrical)<br>2 kV (Test Level 3 - asymmetrical) |
|-------|-------------------------------------------------------------------------|

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|          |                                     |
|----------|-------------------------------------|
| Output   | 0.5 kV (Test Level 2 - 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      |
| Frequency             | 50 Hz         |
| Voltage dip           | 70 %          |
| Number of periods     | 25 periods    |
| Comments              | Criterion A   |
| Voltage dip           | 40 %          |
| Number of periods     | 10 periods    |
| Comments              | Criterion A   |
| Voltage dip           | 0 %           |
| Number of periods     | 1 period      |
| Comments              | Criterion A   |

## Criteria

|             |                                                                                                                                                            |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Criterion A | Normal operating behavior within the specified limits.                                                                                                     |
| Criterion B | Temporary impairment to operational behavior that is corrected by the device itself.                                                                       |
| Criterion C | Temporary adverse effects on the operating behavior, which the device corrects automatically or which can be restored by actuating the operating elements. |



PS-EE-2G/1AC/24DC/240W/SC - Power supply unit

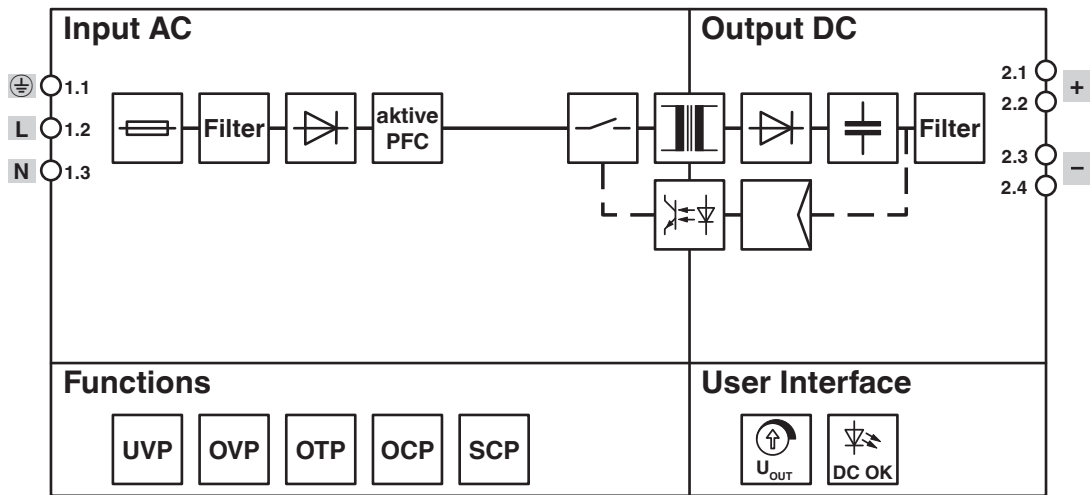


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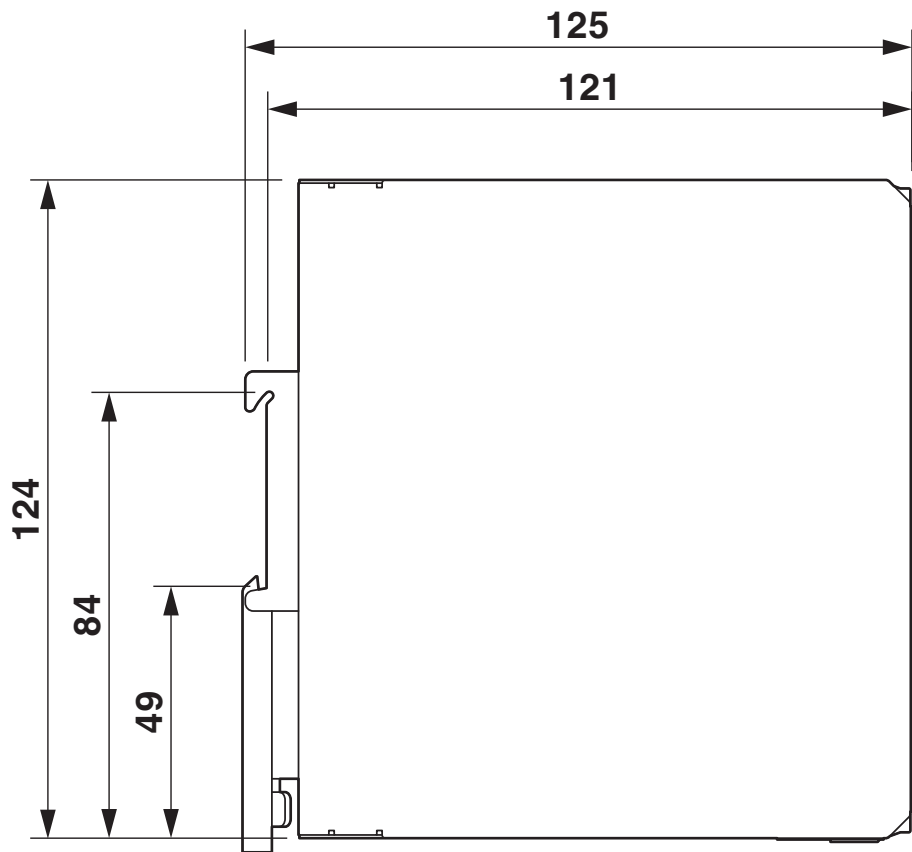
Drawings

Block diagram



Block diagram

Dimensional drawing



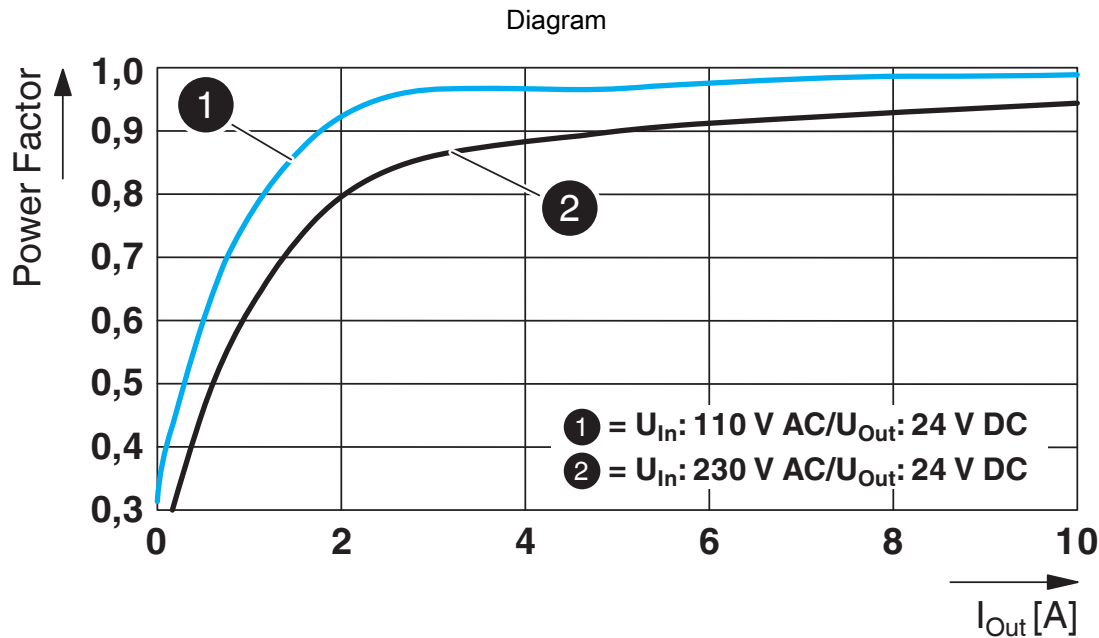
Device dimensions (dimensions in mm)

PS-EE-2G/1AC/24DC/240W/SC - Power supply unit

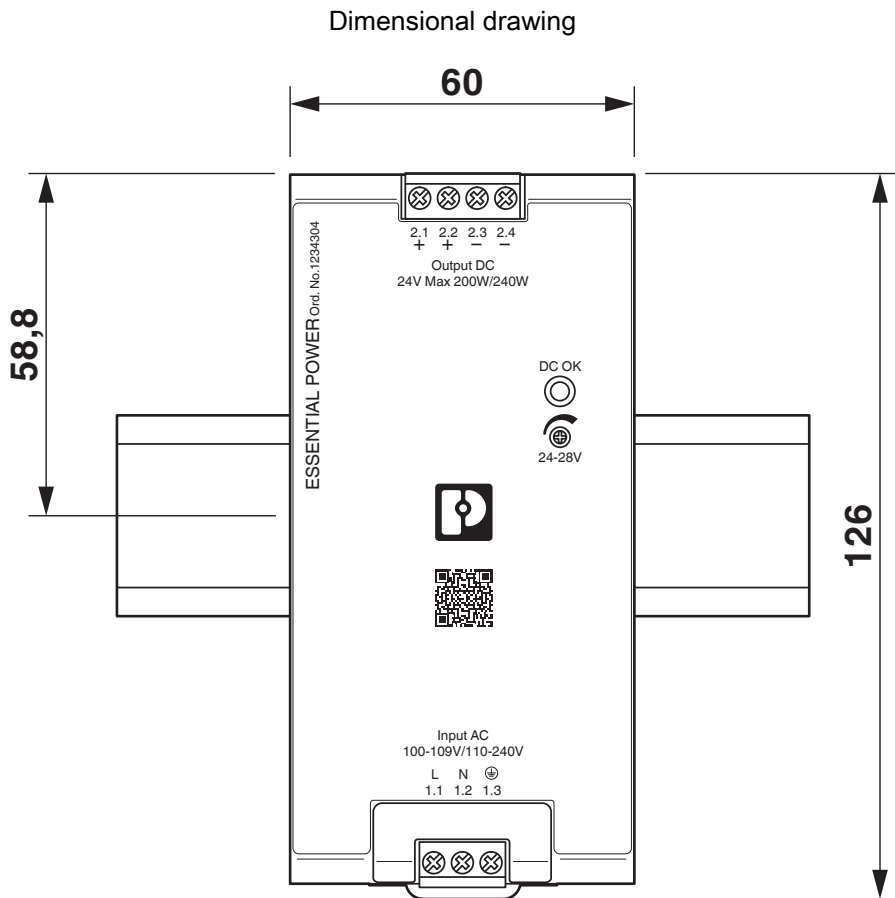


1234304

<https://www.phoenixcontact.com/sk/products/1234304>



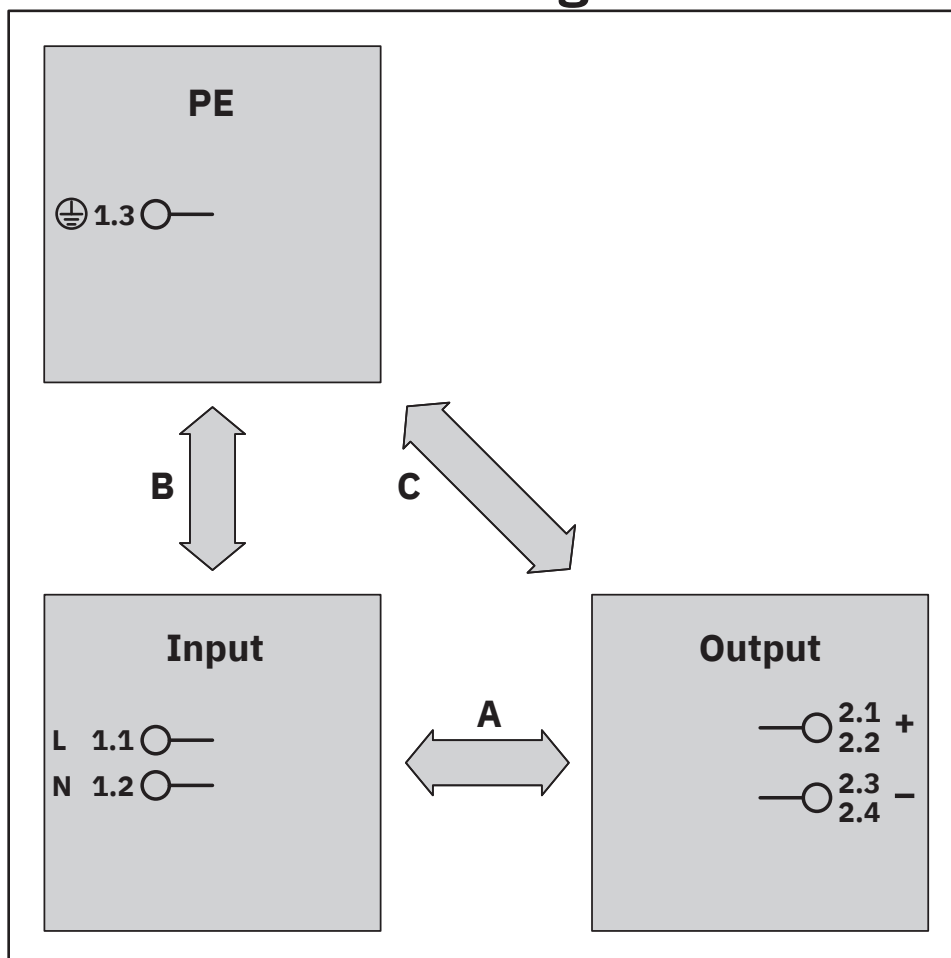
Power factor



Device dimensions (dimensions in mm)

Schematic diagram

## Housing

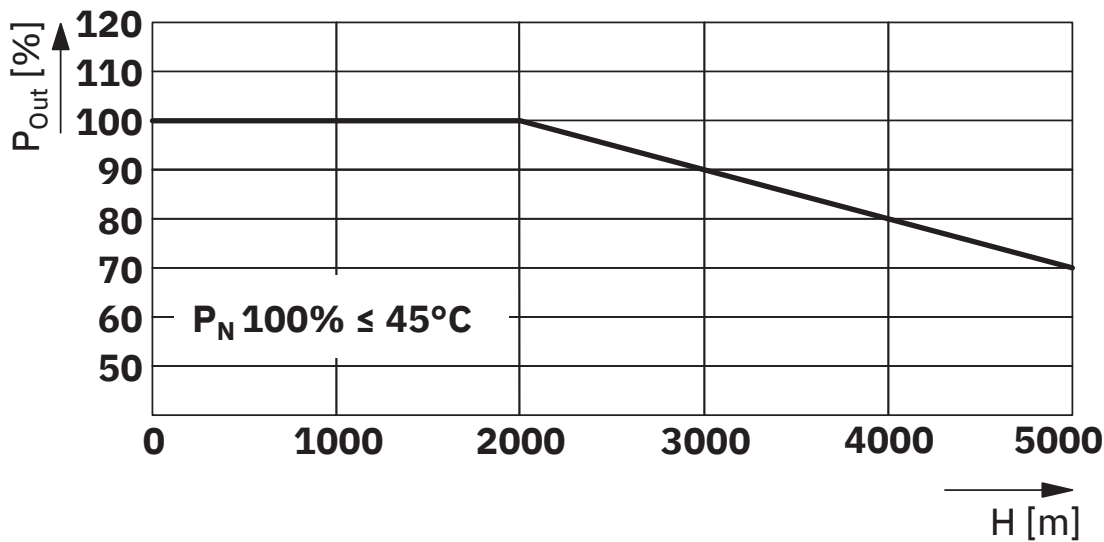


Test sections, insulation voltage

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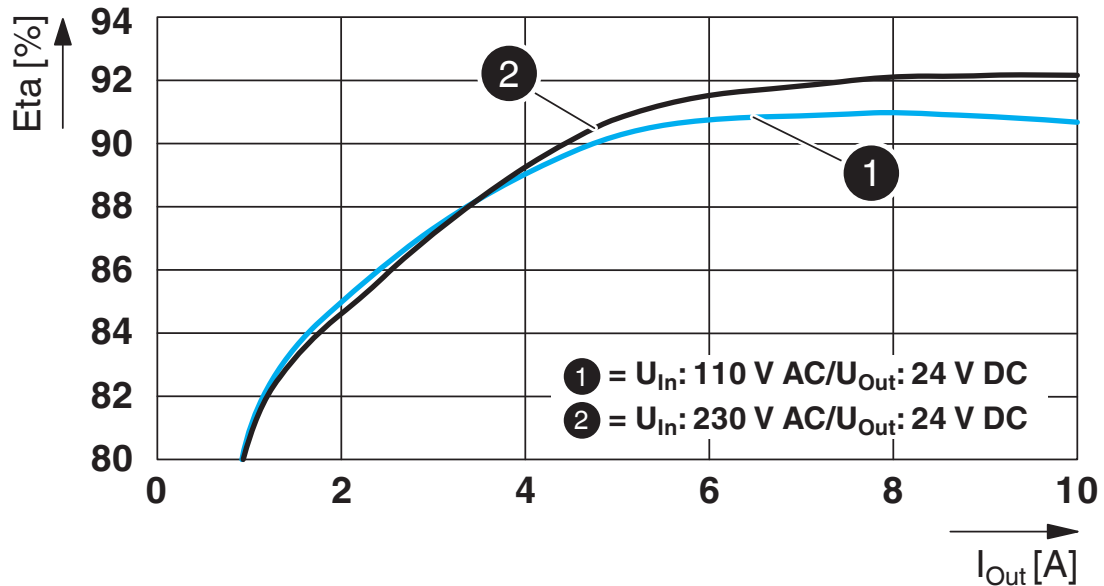
<https://www.phoenixcontact.com/sk/products/1234304>

Diagram

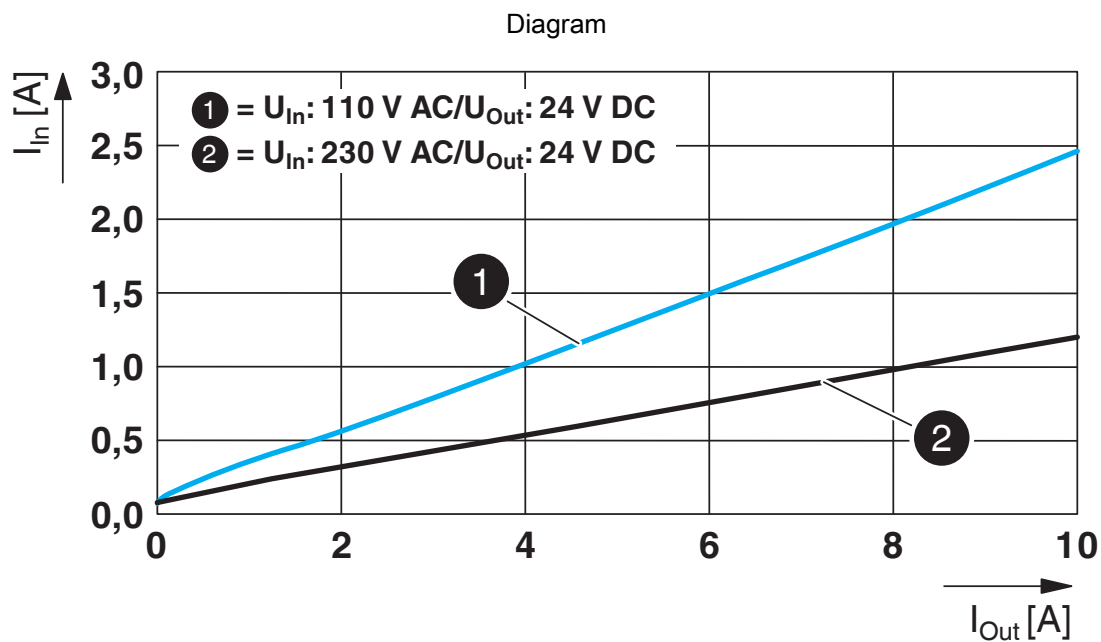


Output power Installation altitude

Diagram



Efficiency



Input current/output current

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/sk/products/1234304>

|                                                                                     |                                                        |
|-------------------------------------------------------------------------------------|--------------------------------------------------------|
|    | <b>IECEE CB Scheme</b><br>Approval ID: DE 2-039089     |
|    | <b>cULus Listed</b><br>Approval ID: E123528-20230428   |
|    | <b>IECEE CB Scheme</b><br>Approval ID: DE 2-039089     |
|                                                                                     | <b>BIS Licence Document</b><br>Approval ID: R-41287490 |
|  | <b>cULus Listed</b><br>Approval ID: E123528-20230428   |
|  | <b>IECEE CB Scheme</b><br>Approval ID: JPTUV-148040-M1 |
|  | <b>IECEE CB Scheme</b><br>Approval ID: JPTUV-148040-M1 |
|                                                                                     | <b>BIS Licence Document</b><br>Approval ID: R-41287490 |

# PS-EE-2G/1AC/24DC/240W/SC - Power supply unit



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## Classifications

### ECLASS

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

### ETIM

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

Environmental product compliance

|                                         |                                                                                                                                                                                                                                   |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EU RoHS                                 |                                                                                                                                                                                                                                   |
| Fulfills EU RoHS substance requirements | Yes                                                                                                                                                                                                                               |
| Exemption                               | 7(a), 7(c)-I                                                                                                                                                                                                                      |
| China RoHS                              |                                                                                                                                                                                                                                   |
| Environment friendly use period (EFUP)  | EFUP-25                                                                                                                                                                                                                           |
|                                         | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |
| EU REACH SVHC                           |                                                                                                                                                                                                                                   |
| REACH candidate substance (CAS No.)     | Lead(CAS: 7439-92-1)                                                                                                                                                                                                              |



# PS-EE-2G/1AC/24DC/240W/SC - Power supply unit



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## Accessories

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

2905489

<https://www.phoenixcontact.com/sk/products/2905489>

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



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### TRIO2-DIODE/12-24DC/2X20/1X40 - Redundancy module

2907379

<https://www.phoenixcontact.com/sk/products/2907379>

Redundancy module, 12 V - 24 V DC, 2 x 20 A, 1 x 40 A



# PS-EE-2G/1AC/24DC/240W/SC - Power supply unit



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## PLT-EE-T3-230AC-R - Type 3 surge protection device

1249060

<https://www.phoenixcontact.com/sk/products/1249060>



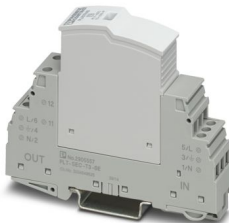
Type 3 surge protection, consisting of protective plug and base element with screw connection, with integrated status indicator and remote signaling for single-phase power supply networks. Nominal voltage: 230 V AC

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

2905229

<https://www.phoenixcontact.com/sk/products/2905229>



Pluggable device protection, according to type 3/class III, for 1-phase power supply networks with separate N and PE (3-conductor system: L1, N, PE), with integrated surge-proof fuse and remote indication contact. Also suitable for DC applications.

# PS-EE-2G/1AC/24DC/240W/SC - Power supply unit



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

2906031

<https://www.phoenixcontact.com/sk/products/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.

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

2906032

<https://www.phoenixcontact.com/sk/products/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.

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## CBMC E4 24DC/1-4A+ IOL - Electronic circuit breaker

2910410

<https://www.phoenixcontact.com/sk/products/2910410>



Multi-channel electronic circuit breaker with IO-Link interface 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.

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## CBMC E4 24DC/1-10A IOL - Electronic circuit breaker

2910411

<https://www.phoenixcontact.com/sk/products/2910411>



Multi-channel electronic circuit breaker with IO-Link interface 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.

# PS-EE-2G/1AC/24DC/240W/SC - Power supply unit



1234304

<https://www.phoenixcontact.com/sk/products/1234304>

## CBM E4 24DC/0.5-10A NO-R - Electronic circuit breaker

2905743

<https://www.phoenixcontact.com/sk/products/2905743>



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

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## CBM E8 24DC/0.5-10A NO-R - Electronic circuit breaker

2905744

<https://www.phoenixcontact.com/sk/products/2905744>



Multi-channel, electronic circuit breaker with active current limitation for protecting eight loads at 24 V DC in the event of overload and short circuit. With nominal current assistant and electronic locking of the set nominal currents. For installation on DIN rails.

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