

TRIO-PM/1AC/24DC/1500W/PT - Power supply



1635197

<https://www.phoenixcontact.com/us/products/1635197>

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Primary-switched power supply unit TRIO POWER, Push-in connection, CAN bus, Panel mounting, input: 1-phase, output: 24 V DC / 62.5 A, adjustable from 24 V DC ... 28 V DC



Product description

The TRIO POWER power supply units for panel mounting offer high power of up to 2.5 kW in a compact housing. With their flexible panel mounting and comprehensive functions, the robust power supply units can be used in a wide range of applications, such as machine building, robotics, or battery storage systems. The integrated O-ring diode enables a simple parallel connection and thus an increase in power without additional components. Extensive monitoring solutions via LEDs, a CAN bus interface, and remote access also facilitate monitoring and settings on the power supply unit.

Your advantages

- Easy handling with Push-in connection technology
- High power density and high efficiency with a compact design
- Simple power increase through parallel connection and integrated O-ring diode as well as increase in output voltage through series connection
- Reliable supply with increased EMC requirements
- Comprehensive monitoring via LED signaling and CAN bus interface

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1635197 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | CM32 |
| Product key | CMHW13 |
| GTIN | 4067923157569 |
| Weight per piece (including packing) | 1,886 g |
| Weight per piece (excluding packing) | 1,570 g |
| Customs tariff number | 85044095 |
| Country of origin | CN |

Technical data

Input data

AC operation

| | |
|------------------------------------|--|
| Supply system configuration | Star network (TN, TT, IT (PE)) |
| Nominal input voltage range | 100 V AC ... 240 V AC |
| Input voltage range | 100 V AC ... 240 V AC -15 % ... +10 % 100 V AC ... 240 V AC \pm 10 % (UL) |
| Derating | 85 V AC ... 90 V AC (\leq 1350 W) |
| | 90 V AC ... 180 V AC (\leq 1500 W) |
| | < 250 V DC (max. 1500 W) |
| | > 250 V DC (max. 2500 W) |
| Electric strength, max. | 300 V AC 1 s |
| Typical national grid voltage | 120 V AC |
| | 230 V AC |
| Voltage type of supply voltage | AC |
| Inrush current | < 10 A (115 V AC, 25 °C) |
| | < 15 A (230 V AC, 25 °C) |
| Inrush current integral (I^2t) | < 0.989 A ² s |
| Frequency range (f_N) | 50 Hz ... 60 Hz \pm 5 % |
| Mains buffering time | typ. 16 ms (120 V AC@80% load) |
| | typ. 16 ms (230 V AC@80% load) |
| Buffer time | typ. 18 ms (120 V AC@80% load) |
| | typ. 18 ms (230 V AC@80% load) |
| Current consumption | 14 A (120 V AC) |
| | 18 A (85 V AC) |
| | 6.2 A (264 V AC) |
| | 7.1 A (230 V AC) |
| | max. 18 A (UL) |
| Protective circuit | Transient protection |
| Power factor (cos phi) | 0.99 (230 V AC) |
| Device mains fuse | 25 A internal (device protection) |
| Discharge current to PE | < 2 mA |

DC operation

| | |
|---------------------|------------------------------------|
| Input voltage range | 250 V DC ... 340 V DC -0% ... +10% |
| Current consumption | 6.5 A (250 V DC) |
| | 4.2 A (380 V DC) |

Output data

| | |
|------------------------|----------------------|
| Efficiency | typ. 91 % (120 V AC) |
| | typ. 93 % (230 V AC) |
| Nominal output voltage | 24 V DC |

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| | |
|--|--|
| 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) | 62.5 A |
| Dynamic Boost ($I_{Dyn.Boost}$) | max. 81.25 A (5 s) |
| Short-circuit-proof | yes |
| No-load proof | yes |
| Derating | 55 °C ... 70 °C (2.5 %/K) |
| Crest factor | typ. 1.486 (120 V AC) typ. 1.532 (230 V AC) |
| Output power (P_N) | 1500 W |
| Output power ($P_{Dyn. Boost}$) | max. 1950 W (5 s) |
| Connection in parallel | yes, for increased efficiency and redundancy |
| Connection in series | yes, for increased output voltage (observe SELV limit) max. 2 |
| Feedback voltage resistance | ≤ 35 V DC |
| Protection against overvoltage at the output (OVP) | ≤ 35 V DC |
| Residual ripple | typ. 150 mV _{PP} (with nominal values) |
| Control deviation | < 0.5 % (change in load, static 10 % ... 90 %) < 5 % (change in load, dynamic 10 % ... 90 %) < 0.5 % (change in input voltage ±10 %) |
| Rise time | ≤ 100 ms ($U_{Out} = 10 % \dots 90 %$) |
| Minimum no-load power dissipation | < 15 W (120 V AC) |
| Maximum no-load power dissipation | < 10 W (230 V AC) |
| Minimum nominal load power dissipation | < 150 W (120 V AC) |
| Power loss nominal load max. | < 120 W (230 V AC) |
| Integrated fuse protection | no |
| Fuse protection (secondary side) | electronic |

Connection data

Input

| | |
|----------|-----|
| Position | 1.x |
|----------|-----|

Connection technology: Positions

| | |
|------------------|------------------------------|
| Position marking | 1.1 (L/+), 1.2 (N/-), 1.3 (⊕ |
|------------------|------------------------------|

Conductor connection

| | |
|--|--|
| Connection method | Push-in connection |
| rigid | 0.2 mm ² ... 10 mm ² |
| | 2.5 mm ² (recommended) |
| flexible | 0.2 mm ² ... 6 mm ² |
| | 2.5 mm ² (recommended) |
| flexible with ferrule without plastic sleeve | 0.25 mm ² ... 6 mm ² |
| | 2.5 mm ² (recommended) |
| flexible with ferrule with plastic sleeve | 0.25 mm ² ... 6 mm ² |
| | 2.5 mm ² (recommended) |

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| | |
|------------------|--------------------------------|
| AWG | 24 ... 8 (Cu) |
| | 14 (recommended) |
| Stripping length | 15 mm (Rigid/flexible/ferrule) |

Output

| | |
|----------|-----|
| Position | 2.x |
|----------|-----|

Connection technology: Positions

| | |
|------------------|------------------|
| Position marking | 2.1 (+), 2.2 (-) |
|------------------|------------------|

Conductor connection

| | |
|--|---|
| Connection method | Push-in connection |
| rigid | 0.75 mm ² ... 16 mm ² |
| | 16 mm ² (recommended) |
| flexible | 0.75 mm ² ... 16 mm ² |
| | 16 mm ² (recommended) |
| flexible with ferrule without plastic sleeve | 0.75 mm ² ... 16 mm ² |
| | 16 mm ² (recommended) |
| flexible with ferrule with plastic sleeve | 0.75 mm ² ... 10 mm ² |
| | 16 mm ² (recommended) |
| AWG | 20 ... 4 (Cu) |
| | 6 (recommended) |
| Stripping length | 18 mm (Rigid/flexible/ferrule) |

Conductor connection

| | |
|-------------------|-----------|
| Connection method | Connector |
|-------------------|-----------|

Signal, communication

| | |
|----------|-----|
| Position | 3.x |
|----------|-----|

Connection technology: Positions

| | |
|------------------|------------|
| Position marking | 3.1 - 3.14 |
|------------------|------------|

Conductor connection

| | |
|--|---|
| Connection method | Push-in connection |
| rigid | 0.2 mm ² ... 1.5 mm ² |
| | 0.5 mm ² (recommended) |
| flexible | 0.2 mm ² ... 1.5 mm ² |
| | 0.5 mm ² (recommended) |
| flexible with ferrule without plastic sleeve | 0.25 mm ² ... 1.5 mm ² (Cu) |
| | 0.5 mm ² (recommended) |
| flexible with ferrule with plastic sleeve | 0.14 mm ² ... 0.75 mm ² |
| | 0.5 mm ² (recommended) |
| AWG | 24 ... 16 (Cu) |
| | 20 (recommended) |
| Stripping length | 10 mm (Rigid/flexible/ferrule) |

Interfaces

CAN-Bus

| | |
|-----------------------|------------------------------------|
| Interface | CAN bus |
| Number of interfaces | 1 |
| Connection method | Push-in connection |
| Supported protocols | CAN 2.0A, CAN 2.0B |
| Transmission physics | wired |
| Topology | Daisy Chain |
| Transmission speed | 250 kbps |
| Transmission length | max. 20 m |
| Termination resistor | 120 Ω (Terminating the end device) |
| Number of bus devices | max. 16 |

Signaling

LED signaling

| | |
|-------------------------|--|
| Types of signaling | LED DC OK - signal state operation ($U_N = 24 \text{ V DC}$, $I_{Out} = I_N$) |
| Function | Visualization of the operating state of the DC output voltage (DC OK) |
| Color | Red, green (multicolor LED) |
| LED off | Supply voltage input AC not present (Off) |
| LED on (green), DC OK | $U_{OutSet} \times 0.95 < U_{Out} < U_{OutSet} \times 1.05$ and $I_{Out} < I_N$ |
| LED on (flashing green) | $U_{OutSet} \times 1.05 < U_{Out} < U_{OutSet} \times 1.1$ or $U_{OutSet} \times 0.9 < U_{Out} < U_{OutSet} \times 0.95$ or $I_N < I_{Out} < I_N \times 1.1$ |
| LED on (red) | $U_{OutSet} \times 0.9 > U_{Out}$ or $U_{OutSet} \times 1.1 < U_{Out}$ or $I_{Out} > I_N \times 1.1$, continuously for 6 s |

LED signaling

| | |
|-------------------------|--|
| Types of signaling | LED OVP - signal state operation ($U_N = 24 \text{ V DC}$, $I_{Out} = I_N$) |
| Function | Visualization of the surge protection operating state (OVP) |
| Color | Red, green (multicolor LED) |
| LED off | Supply voltage input AC not present (Off) |
| LED on (green) | $U_{Out} < U_{OutSet} \times 1.1$ (on (green)) |
| LED on (flashing green) | $U_{OutSet} \times 1.1 < U_{Out} < OVP$ (on (flashing green)) |
| LED on (red) | $U_{Out} > OVP$ (on (red)) |

LED signaling

| | |
|-------------------------|--|
| Types of signaling | LED OCP - signal state operation ($U_N = 24 \text{ V DC}$, $I_{Out} = I_N$) |
| Function | Visualization of the overcurrent protection operating state (OCP) |
| Color | Red, green (multicolor LED) |
| LED off | Supply voltage input AC not present (Off) |
| LED on (green) | $I_{Out} < I_N \times 1.1$ (on (green)) |
| LED on (flashing green) | $I_N \times 1.1 < I_{Out} < I_N \times 1.3$ (on (flashing green)) |
| LED on (red) | $I_{Out} > I_N \times 1.3$ continuously for 6 s (on (red)) |

LED signaling

| | |
|-------------------------|--|
| Types of signaling | LED OTP - signal state operation ($U_N = 24 \text{ V DC}$, $I_{Out} = I_N$) |
| Function | Visualization of the overtemperature protection operating state (OTP) |
| Color | Red, green (multicolor LED) |
| LED off | Supply voltage input AC not present |
| LED on (green) | $T_{Amb} < OTP - 10 \text{ °C}$ (on (green)) |
| LED on (flashing green) | $OTP - 10 \text{ °C} < T_{Amb} < OTP$ (on (flashing green)) |
| LED on (red) | $OTP < T_{Amb}$ (on (red)) |

LED signaling

| | |
|--------------------|--|
| Types of signaling | LED FAN - signal state operation ($U_N = 24 \text{ V DC}$, $I_{Out} = I_N$) |
| Function | Visualization of the operating state of the fan (in operation or malfunction) |
| Color | Red, green (multicolor LED) |
| LED on (green) | FAN normal operation (on (4 x LED green)) |
| LED on (red) | FAN failure (on (4 x LED red)) |

LED signaling

| | |
|----------------------|--|
| Types of signaling | LED SCP - signal state operation ($U_N = 24 \text{ V DC}$, $I_{Out} = I_N$) |
| Function | Visualization of the short-circuit protection operating state (SCP) |
| Color | Red, green (multicolor LED) |
| LED on (flowing red) | Short circuit (on (4 x LED red continuous)) |

LED signaling

| | |
|--------------------------|--|
| Types of signaling | LED Charging Mode – signal state operation ($U_N = 24 \text{ V DC}$, $I_{Out} = I_N$) |
| Function | Visualization of the charging mode |
| Color | Red, green (multicolor LED) |
| LEDs on (green flashing) | Charging mode activated (on (4 x LED green flashing)) |

Signal output DC OK

| | |
|----------------------------------|---|
| Position | 3.x |
| Type of signaling | DC OK switch contact - signal state operation ($U_N = 24 \text{ V DC}$, $I_{Out} = I_N$) |
| Position marking | 3.1 (13), 3.2 (14) |
| Function | Operating state forwarding |
| Switch contact (floating) | Optocoupler |
| Switching voltage | max. 30 V DC (SELV) |
| Current carrying capacity | max. 10 mA |
| State condition (Contact closed) | $U_{Out} > 0.75 * U_{OutSet}$ (Contact closed) |
| State condition (Contact open) | $U_{Out} < 0.75 * U_{OutSet}$ (Contact open) |

Electrical properties

| | |
|---------------------------------|---------------------|
| Number of phases | 1 |
| Insulation voltage input/output | 4 kV AC (type test) |

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| | |
|--|--------------------------|
| | 1.5 kV AC (routine test) |
|--|--------------------------|

Product properties

| | |
|----------------------------|---|
| Product type | Power supply |
| Product family | TRIO POWER |
| Scope of supply | Power supply unit TRIO-PM/.../PT, 1 pc. PCB connector, 2 x 7-pos., 1 pc. 1 set of universal wall adapters UWA 20/13 |
| MTBF (IEC 61709, SN 29500) | > 600000 h (25 °C) > 250000 h (40 °C) > 100000 h (55 °C) |

Insulation characteristics

| | |
|---------------------------------------|---------------|
| Protection class | I |
| Overvoltage category (EN 61010-1) | II (≤ 5000 m) |
| Overvoltage category (EN 61010-2-201) | II (≤ 5000 m) |
| Degree of pollution | 2 |

Life expectancy (electrolytic capacitors)

| | |
|-----------------|---------|
| Temperature | 25 °C |
| Additional text | 8 years |

Dimensions

Item dimensions

| | |
|--------|--------|
| Width | 128 mm |
| Height | 41 mm |
| Depth | 222 mm |

Mounting

| | |
|---------------|---|
| Mounting type | Panel mounting |
| Assembly note | Side mounting: 2 x M4 screws - installation depth < 4 mm Back mounting: 4 x M4 screws - installation depth < 3 mm Mounting with mounting adapter UWA 20/13 (item no. 1697537) |

Material specifications

| | |
|--|---|
| Flammability rating according to UL 94 | V0 (Housing, terminal blocks) |
| Housing material | Steel sheet, zinc-plated |
| Hood version | Galvanized sheet steel, free from chrome (VI) |
| Side element version | Galvanized sheet steel, closed |

Environmental and real-life conditions

Ambient conditions

| | |
|---------------------------------|--|
| Degree of protection | IP20 IP20 |
| Ambient temperature (operation) | -20 °C ... 70 °C (> 55 °C Derating: 2.5 %/K) |

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| | |
|--|--|
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Ambient temperature (start-up type tested) | -40 °C |
| Maximum altitude | ≤ 5000 m |
| Maximum altitude (Output power derating) | > 2000 m (Derating: 10%/1000 m) |
| Max. permissible relative humidity (operation) | ≤ 95 % (at 25 °C, non-condensing) |
| Shock (operation) | 11 ms, 15g, per spatial direction (IEC 60068-2-27) |
| Vibration (operation) | 10 Hz ... 18.2 Hz, amplitude ±0.75 mm (IEC 60068-2-6) 18.2 Hz ... 150 Hz, 1g, 90 min. |
| Noise level | < 56 dB (1 m) |

Standards and regulations

Safety of power supply units up to 1100 V (insulation distances)

| | |
|--------------------------|--|
| Standard designation | Safety of power supply units up to 1100 V (insulation distances) |
| Standards/specifications | DIN EN 61558-2-16 |

Electrical safety

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

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) |

Safe isolation

| | |
|--------------------------|-----------------|
| Standard designation | Safe isolation |
| Standards/specifications | IEC 61010-2-201 |

Limitation of harmonic line currents

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

Mains variation/undervoltage

| | |
|--------------------------|------------------------------|
| Standard designation | Mains variation/undervoltage |
| Standards/specifications | SEMI F47 - 0706 |

Approvals

UL

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

UL

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

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UL

| | |
|----------------|-----------------------------|
| Identification | UL/C-UL Approved UL 62368-1 |
|----------------|-----------------------------|

EMC data

| | |
|-------------------------------|--|
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |
| Low Voltage Directive | Conformance with Low Voltage Directive 2014/35/EC |
| Interference emission | Interference emission in accordance with EN 61000-6-3 (residential and commercial) and EN 61000-6-4 (industrial) |
| Noise immunity | Immunity in accordance with EN 61000-6-1 (residential), EN 61000-6-2 (industrial) |

Conducted noise emission

| | |
|-----------------------|------------------------------------|
| Standards/regulations | EN 55016 EN 61000-6-3 (Class B) |
|-----------------------|------------------------------------|

Noise emission

| | |
|-----------------------|------------------------------------|
| Standards/regulations | EN 55016 EN 61000-6-3 (Class B) |
|-----------------------|------------------------------------|

Harmonic currents

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

Flicker

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

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 |
|-----------------------|--------------|

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Fast transients (burst)

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

Surge voltage load (surge)

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

Surge voltage load (surge)

| | |
|----------|-----------------------------------|
| Input | symmetrical 2 kV (Test Level 4) |
| | asymmetrical 4 kV (Test Level 4) |
| Output | symmetrical 0.5 kV (Test Level 2) |
| | asymmetrical 1 kV (Test Level 2) |
| Signal | asymmetrical 1 kV (Test Level 2) |
| Comments | Criterion B |

Conducted interference

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

Conducted interference

| | |
|---------------------|---------------------|
| Input/output/signal | 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 |
| Additional text | Class 3 |
| Comments | Criterion B |
| Voltage dip | 40 % |
| Number of periods | 10 periods |
| Additional text | Class 3 |
| Comments | Criterion B |
| Voltage dip | 0 % |
| Number of periods | 1 period |
| Additional text | Class 3 |
| Comments | Criterion B |

Criteria

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

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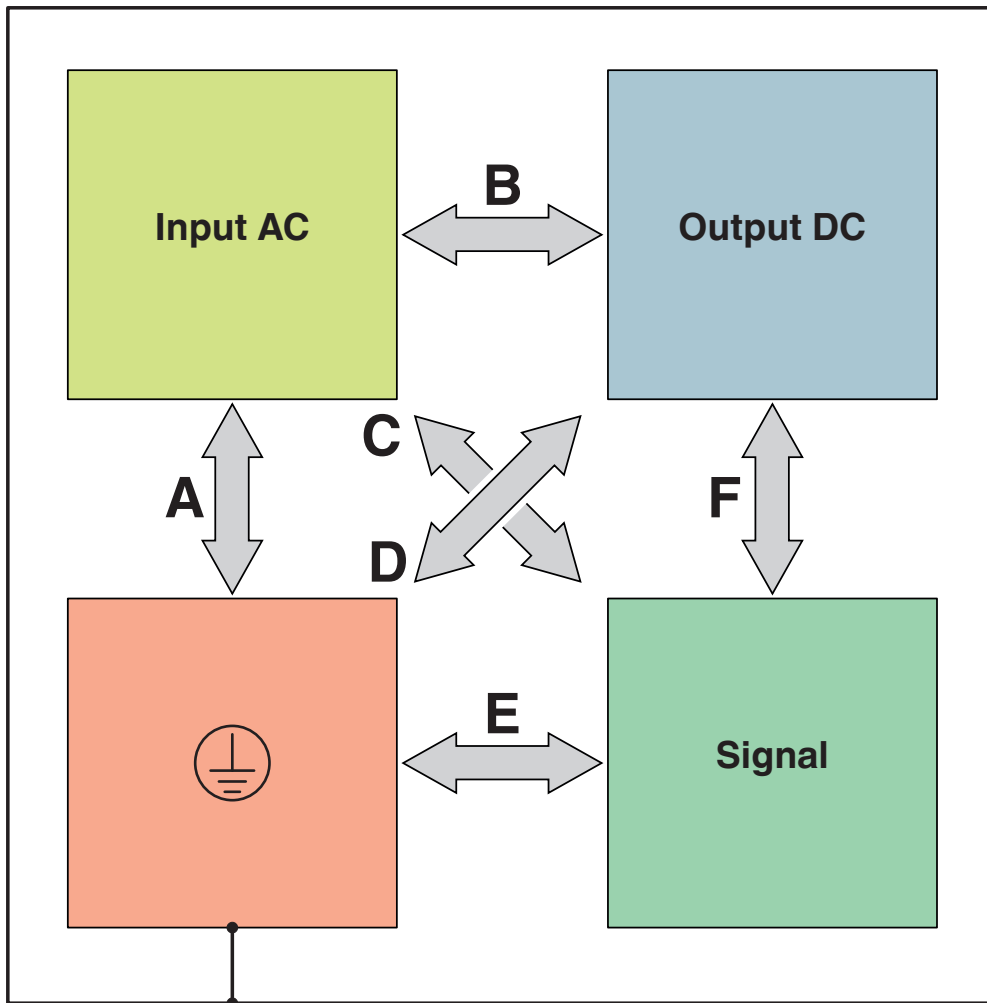
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| | |
|-------------|--|
| | by the device itself. |
| Criterion C | Temporary adverse effects on the operating behavior, which the device corrects automatically or which can be restored by actuating the operating elements. |

Drawings

Schematic diagram

Housing



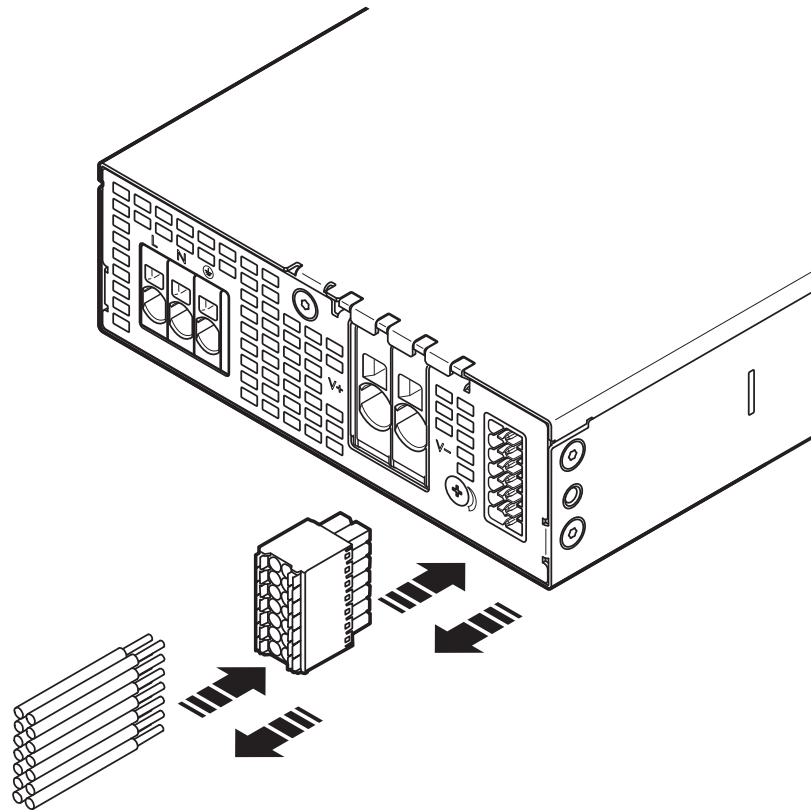
Test sections, insulation voltage

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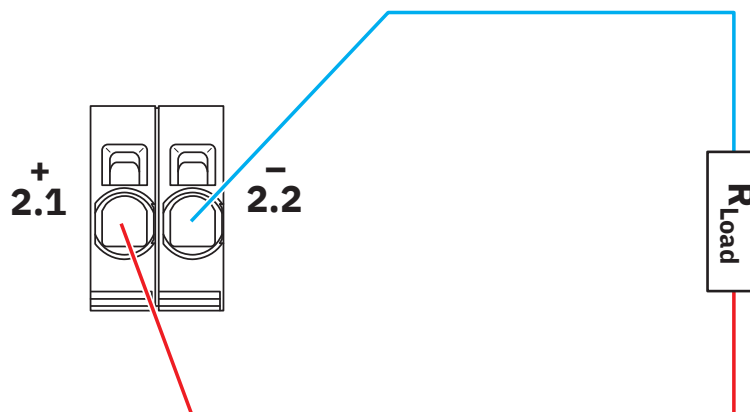
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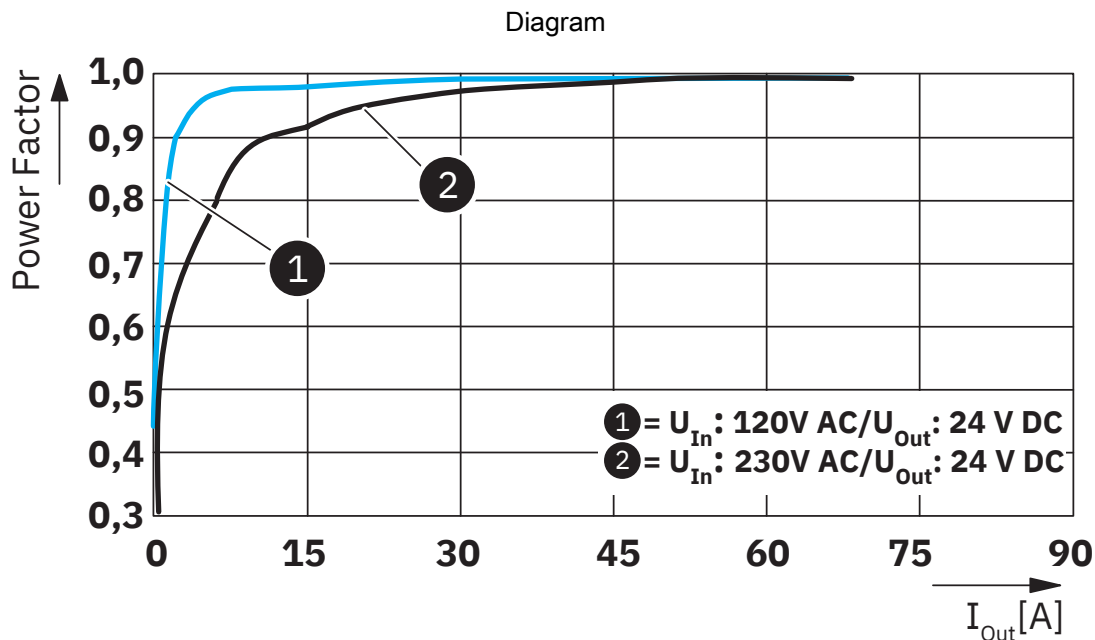
<https://www.phoenixcontact.com/us/products/1635197>

Schematic diagram

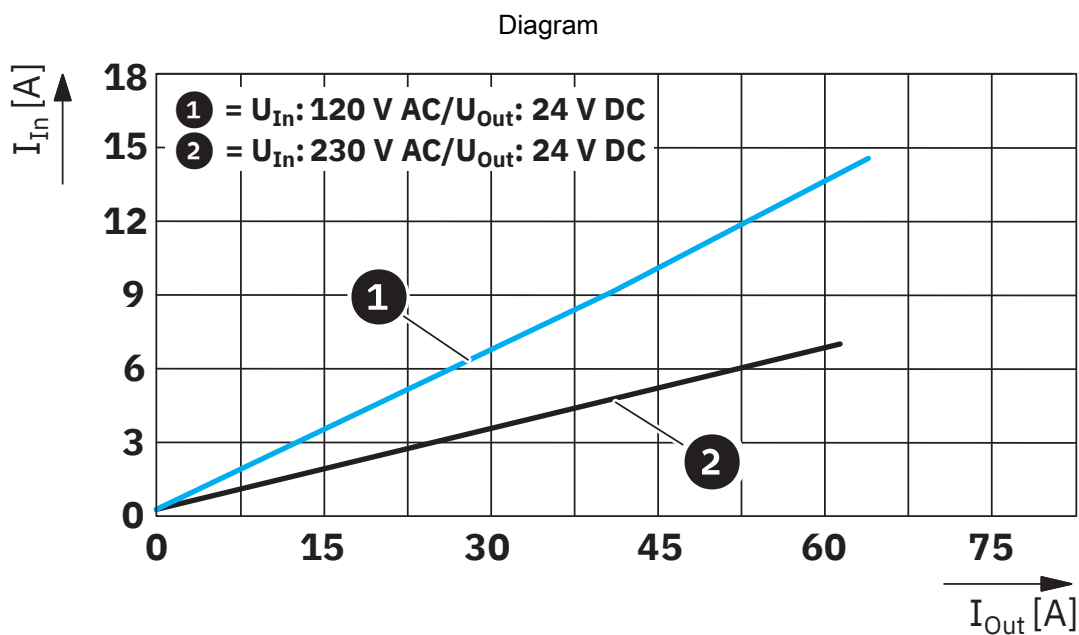


Schematic diagram

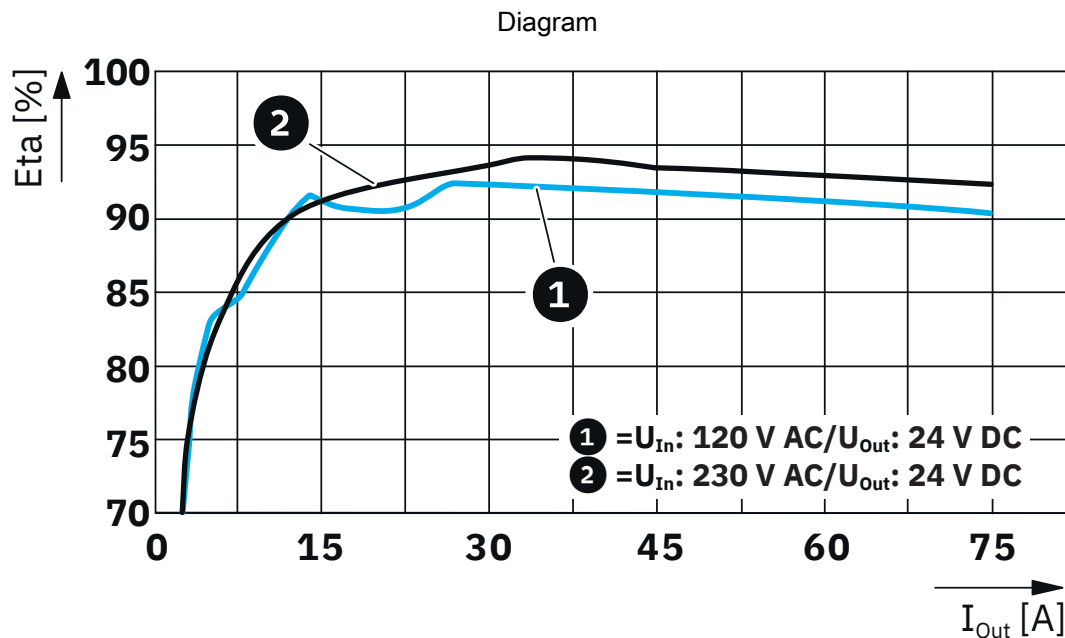




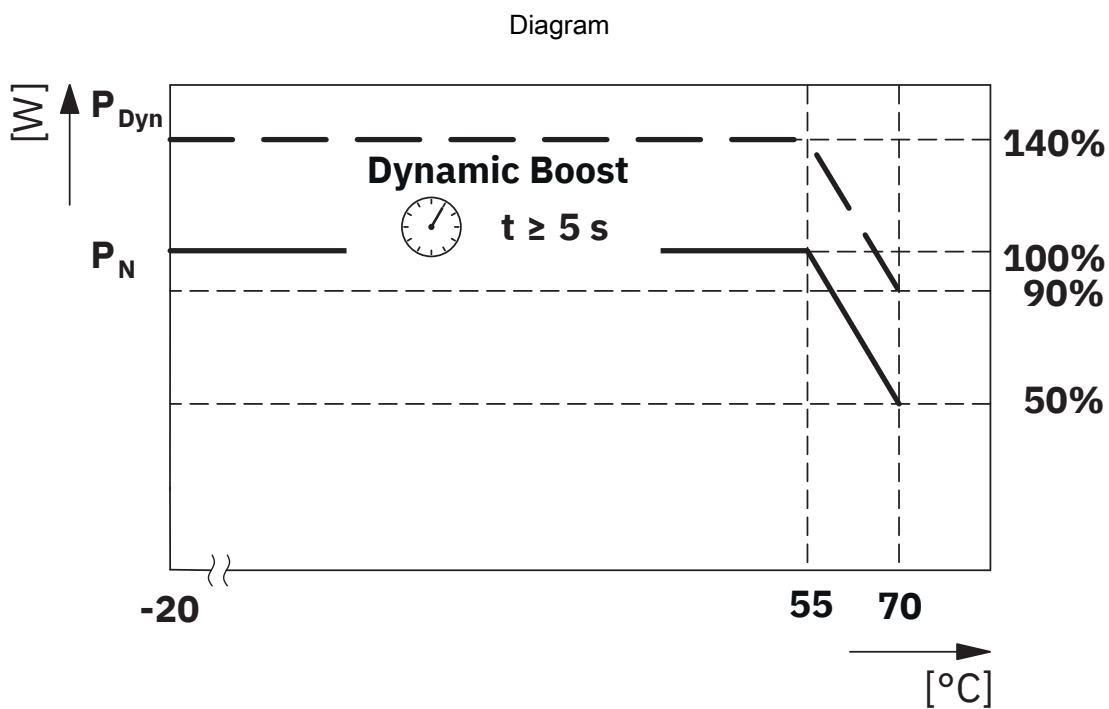
Power factor



Input current/output current



Efficiency

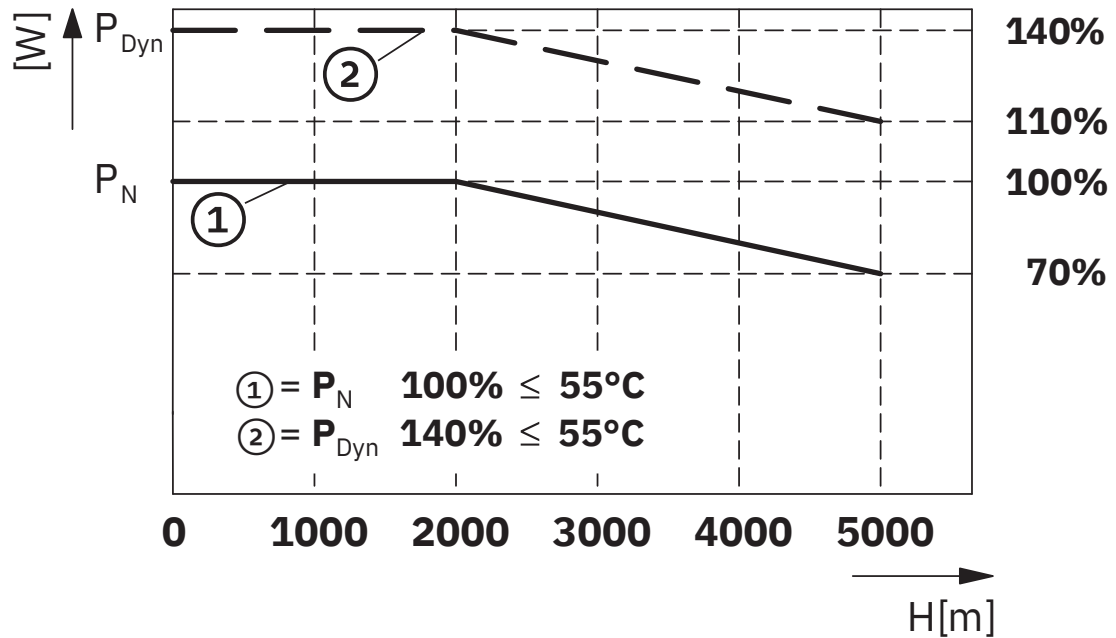


Temperature-dependent derating

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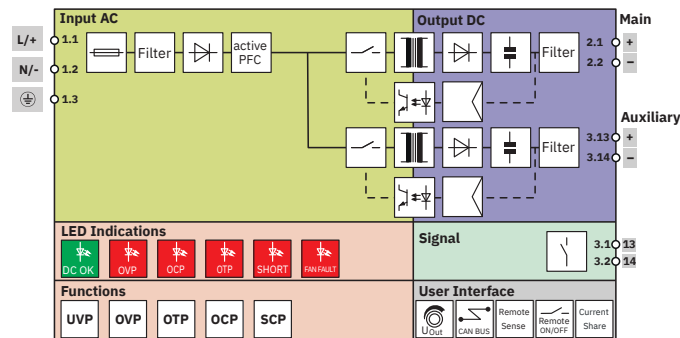
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Diagram



Altitude-dependent derating

Block diagram



Block diagram

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1635197>



cULus Recognized

Approval ID: E211944-20250521



IECEE CB Scheme

Approval ID: DK-166595-UL



cULus Listed

Approval ID: E123528-20251212

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27040701 |
| ECLASS-15.0 | 27040701 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC002540 |
|-----------|----------|

UNSPSC

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

TRIO-PM/1AC/24DC/1500W/PT - Power supply



1635197

<https://www.phoenixcontact.com/us/products/1635197>

Environmental product compliance

EU RoHS

| | |
|---|--------------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c), 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) |
|-------------------------------------|----------------------|

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