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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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MINI-PS- 12- 24DC/24DC/1

Order No.: 2866284

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2866284>DC-DC converter, primary switched mode, slimline design, input: 12
-24 V DC, output: 24 V DC / 1 A**Commercial data**

| | |
|--------------------------|--------------------|
| EAN | 4017918960902 |
| Pack | 1 pcs. |
| Customs tariff | 85044081 |
| Weight/Piece | 0.2561 KG |
| Catalog page information | Page 599 (IF-2009) |

Product notesWEEE/RoHS-compliant since:
02/27/2007

<http://www.download.phoenixcontact.com>
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

Technical data**Input data**

| | |
|------------------------|--|
| Nominal input voltage | 12 V DC ... 24 V DC |
| DC input voltage range | 10 V DC ... 32 V DC |
| DC frequency range | 0 Hz |
| Current consumption | Approx. 2.6 A (12 V DC) Approx. 1.3 A (24 V DC) |

| | |
|----------------------|-----------------------------|
| Inrush surge current | < 15 A (typical) |
| Power failure bypass | > 3 ms (12 V DC) |
| | > 20 ms (24 V DC) |
| Input fuse | 6.3 A (slow-blow, internal) |

Output data

| | |
|--------------------------------------|---|
| Nominal output voltage | 24 V DC \pm 1% |
| Setting range of the output voltage | 22.5 V DC ... 28.5 V DC (> 24 V constant capacity) |
| Output current | 1 A (-25 °C ... 60 °C) |
| Derating | from 60°C to 70°C: 2.5% per Kelvin |
| Connection in parallel | Yes, for assembling redundant systems and increasing efficiency |
| Connection in series | No |
| Residual ripple | < 30 mV _{PP} (20 MHz) |
| Peak switching voltages nominal load | < 100 mV _{PP} (20 MHz) |
| Maximum power dissipation idling | < 1.2 W |
| Power loss nominal load max. | < 5 W |

General data

| | |
|--|---|
| Width | 22.5 mm |
| Height | 99 mm |
| Depth | 107 mm |
| Weight | 0.2 kg |
| Operating voltage display | LED green |
| Efficiency | > 83 % (at 24 V DC and nominal values) |
| Insulation voltage input/output | 1 kV (routine test) 1.5 kV (type test) |
| Degree of protection | IP20 |
| Class of protection | III |
| MTBF | > 500 000 h in acc. with IEC 61709 (SN 29500) |
| Ambient temperature (operation) | -25 °C ... 70 °C (> 60 °C derating) |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Max. permissible relative humidity (operation) | ≤ 95 % (at 25 °C, no condensation) |
| Mounting position | Horizontal DIN rail NS 35, EN 60715 |
| Assembly instructions | Can be aligned: Horizontal 0 cm, vertical 5 cm |
| Electromagnetic compatibility | Conformance with EMC guideline 2004/108/EC and for low-voltage guideline 2006/95/EC |
| Emitted interference | EN 50081-2 |

| | |
|--|---|
| Immunity to interference | EN 61000-6-2:2005 |
| Standard - Safety of transformers | EN 61558-2-17 |
| Standard - Electrical safety | EN 60950/VDE 0805 (SELV) |
| Shipbuilding approval | Germanischer Lloyd |
| Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations | EN 50178/VDE 0160 (PELV) |
| Standard - Safe isolation | DIN VDE 0100-410 |
| | DIN VDE 0106-101 |
| UL approvals | UL/C-UL listed UL 508 |
| | UL/C-UL Recognized UL 60950 |
| | UL/C-UL Listed UL 1604 Class I, Division 2, Groups A, B, C, D |

Connection data, input

| | |
|--|----------------------------|
| Type of connection | Pluggable screw connection |
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 2.5 mm ² |
| Conductor cross section stranded min. | 0.2 mm ² |
| Conductor cross section stranded max. | 2.5 mm ² |
| Conductor cross section AWG/kcmil min. | 24 |
| Conductor cross section AWG/kcmil max | 14 |
| Stripping length | 7 mm |
| Screw thread | M3 |

Connection data, output

| | |
|--|----------------------------|
| Type of connection | Pluggable screw connection |
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 2.5 mm ² |
| Conductor cross section stranded min. | 0.2 mm ² |
| Conductor cross section stranded max. | 2.5 mm ² |
| Conductor cross section AWG/kcmil min. | 24 |
| Conductor cross section AWG/kcmil max | 14 |
| Stripping length | 7 mm |

Signaling

| | |
|---------------------------|--|
| Output name | DC OK active |
| Output description | U _{OUT} > 21.5 V: High signal |
| Maximum switching voltage | ≤ 24 V DC |

| | |
|--|---------------------|
| Output voltage | + 24 V (signal) |
| Continuous load current | ≤ 20 mA |
| Status display | "DC OK" LED green |
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 2.5 mm ² |
| Conductor cross section stranded min. | 0.2 mm ² |
| Conductor cross section stranded max. | 2.5 mm ² |
| Conductor cross section AWG/kcmil min. | 24 |
| Conductor cross section AWG/kcmil max | 14 |
| Tightening torque, min | 0.5 Nm |
| Tightening torque max | 0.6 Nm |
| Screw thread | M3 |

Certificates / Approvals

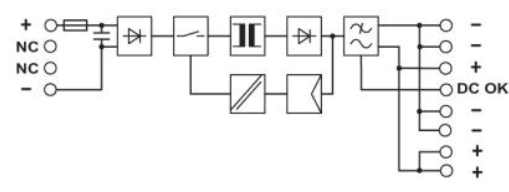


Certification CUL, CUL Listed, GL, UL, UL Listed

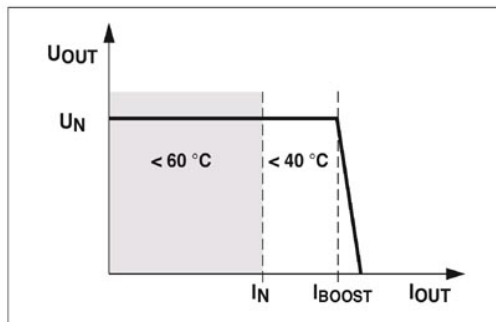
Certification Ex: CUL-EX LIS, UL-EX LIS

Diagrams/Drawings

Block diagram



Diagram



POWER BOOST

Approbationslogos (EX-Bereich)



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