

MINI-PS-100-240AC/24DC/C2LPS

Order No.: 2866336



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2866336>

Power supply unit, primary switched-mode, narrow design, output: 24 V DC / 100W

Commercial data

| | |
|--------------------------|--------------------|
| EAN | 4017918975043 |
| Pack | 1 Pcs. |
| Customs tariff | 85044081 |
| Weight/Piece | 0.5108 KG |
| Catalog page information | Page 503 (IF-2007) |

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Technical data

Input data

| | |
|------------------------|------------------------------|
| Nominal input voltage | 100 V AC ... 240 V AC |
| AC input voltage range | 85 V AC ... 264 V AC |
| DC input voltage range | 90 V DC ... 350 V DC |
| AC frequency range | 45 Hz ... 65 Hz |
| DC frequency range | 0 Hz |
| Current consumption | Approx. 1.3 A (120 V AC) |
| | 0.8 A (230 V AC) |
| | Approx. 1.3 A (for 90 V DC) |
| | Approx. 0.4 A (for 350 V DC) |
| Inrush surge current | < 15 A (typical) |

| | |
|-------------------------|------------------------------|
| Power failure bypass | > 20 ms (120 V AC) |
| | > 100 ms (230 V AC) |
| Input fuse | 3.15 A (slow-blow, internal) |
| Recommended backup fuse | 6 A |
| | 10 A |
| | 16 A (characteristic B) |

Output data

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|--------------------------------------|--|
| Nominal output voltage | 24 V DC \pm 1% |
| Setting range of the output voltage | 22.5 V DC ... 26 V DC (> 24 V constant capacity) |
| Output current | 3.8 A (-25°C ... 70°C) |
| Connection in parallel | Yes, for redundancy and increased capacity |
| Connection in series | No |
| Residual ripple | < 40 mVPP |
| Peak switching voltages nominal load | < 50 mVPP (20 MHz) |
| Maximum power dissipation idling | 2.5 W |
| Power loss nominal load max. | 12 W |

General data

| | |
|--|--|
| Width | 67.5 mm |
| Height | 99 mm |
| Depth | 107 mm |
| Weight | 0.4 kg |
| Operating voltage display | LED green |
| Efficiency | > 88 % (bei 230 V AC und Nennwerten) |
| Insulation voltage input/output | 3 kV (routine test) |
| | 3 kV (type test) |
| Degree of protection | IP20 |
| Class of protection | II (in an enclosed control cabinet) |
| 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 directive 89/336/EEC |

| | |
|--|---|
| Emitted interference | EN 50081-2 |
| Immunity to interference | EN 61000-6-2 |
| Standard – Safety transformers for switched-mode power supply units | EN 61558-2-17 |
| Standard - Electrical safety | EN 60950/VDE 0805 (SELV) |
| 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 0106-1010 |
| Standard – Limitation of mains harmonic currents | EN 61000-3-2 |
| Standard – Equipment safety | GS (tested safety) |
| 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 | COMBICON screw/plug 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 | 12 |
| Stripping length | 7 mm |
| Screw thread | M3 |

Connection data, output

| | |
|--|--------------------------------|
| Type of connection | COMBICON screw/plug 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 | 12 |
| Stripping length | 7 mm |

Signaling

| | |
|--|--|
| Output name | DC OK active |
| Output description | $U_{OUT} > 21.5 \text{ V}$: High signal |
| Maximum switching voltage | $\leq 24 \text{ V}$ |
| Output voltage | + 24 V (signal) |
| Continuous load current | $\leq 20 \text{ mA}$ |
| Status display | "DC OK" LED green |
| Note on status display | $U_{OUT} > 21.5 \text{ V}$: LED lights up |
| 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 | 12 |
| Tightening torque, min | 0.5 Nm |
| Tightening torque max | 0.6 Nm |
| Screw thread | M3 |

Certificates / Approvals



Certification

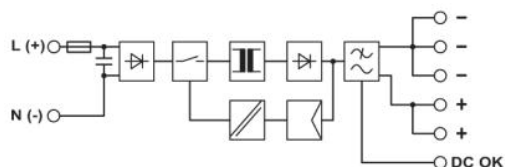
CUL, CUL Listed, UL, UL Listed

Certification Ex:

CUL-EX LIS, UL-EX LIS

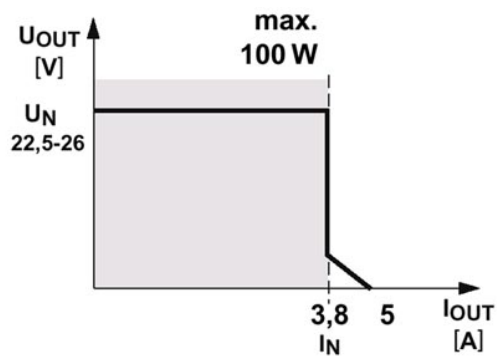
Drawings

Block diagram



Diagram

Output characteristic curve



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