TRIDONIC

Power supply MW 24VDC

General

Product description
_ Ultra slim design with 35 mm (2SU) width
_ Power input on stand-by < 0.3 W
_ Isolation class II
_ Pass LPS (Limited Power Source)
_ DC output voltage adjustable
_ Protective features (short circuit, overload, over voltage)
_ Cooling by free air convection (working temperature: -30 … +70 °C)
_ DIN rail TS-35/7.5 or 15 mountable
_ LED indicator for power on
_ 3 years guarantee (conditions at https://www.tridonic.com/en/int/services/manufacturer-guarantee-conditions)

Typical applications
_ lichtMONITOR server x5 (28004946)
_ sceneCOM evo Touchpanel (28005694)

Website
http://www.tridonic.com/28005796

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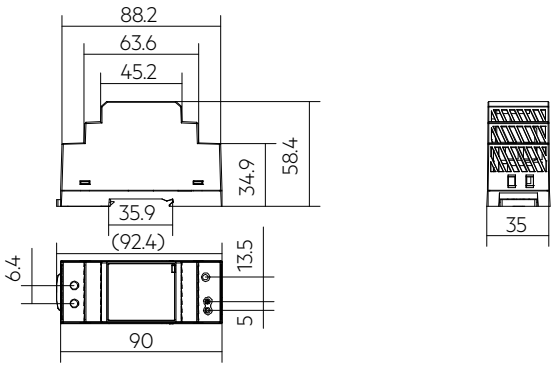
General



Ordering data

Type	Article number	Packaging, carton	Weight per pc.
Power supply MW 24VDC	**28005796**	96 pc(s).	0.13 kg

Technical data

Rated supply voltage ①	110 – 240 V
Mains frequency	50 / 60 Hz
Typ. current	1.5 A
Power consumption	36 W
Efficiency	89 %
Typ. power consumption on stand-by	0.3 W
Output DC	24 V
Output power	30 W
Ambient temperature ta	-30 … +70 °C
Storage temperature ts	-40 … +85 °C
Humidity ②	10 … 95 %
Type of protection	IP20
Dimensions L x W x H	35 x 90 x 54.4 mm
Guarantee (conditions at www.tridonic.com)	3 Year(s)

Approval marks

Standards

EN 55032, EN 55035, EN 61000-3-2, EN 61000-3-3, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11, EN 61000-6-2, EN 61204-3

① 277 V AC operational.
② Relative humidity non-condensing.

1. Standards

EN 55032
EN 55035
EN 61000-3-2
EN 61000-3-3
EN 61000-4-2
EN 61000-4-3
EN 61000-4-4
EN 61000-4-5
EN 61000-4-6
EN 61000-4-8
EN 61000-4-11
EN 61000-6-2
EN 61204-3

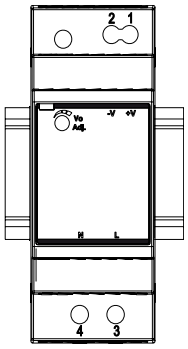
2. Common

2.1 Functional description

The 24 V DC Power supply is a compact, 30 W DIN rail power supply designed for space-saving installation. It supports a wide AC input range and meets EU standards for harmonic current. With a plastic housing for safety, it operates efficiently (up to 90 %) in temperatures from -30 to 70 °C.
It has comprehensive protection features and certifications, making it suitable for lichtMONITOR server x 5 and sceneCOM evo Touchpanel applications.

3. Installation

3.1 Terminals

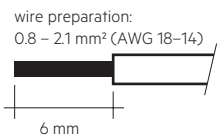


Pin number	Assignment
1	V+
2	V–
3	AC/L
4	AC/N

Note: Ensure proper ventilation by maintaining clearances of 5 mm on the sides, 40 mm above and 20 mm below the unit during use to prevent overheating.

3.2 Cable types and cable cross-sections

For wiring use stranded wire with ferrules or solid wire from 0.8–2.1 mm² (AWG 18–14).
Strip 6 mm of insulation from the cables to ensure perfect operation of the screw terminals. The recommended screwdriver is a 3 mm slotted type.
Use one wire for each terminal connector only.



AWG	18	16	14
Cross section (mm²)	0.8 mm²	1.3 mm²	2.1 mm²
Rated current of equipment (A)	7 A	10 A	15 A

When using 4 – 6 wires connected to the unit, the current each wire carries should be reduced to 80% of the recommended value.

Ensure that all strands of each stranded wire are fully inserted into the terminal connection and that the screw terminals are tightly secured to avoid poor contact. If the power supply has multiple output terminals, make sure each contact is connected to wires to prevent excessive current stress on any single contact.

Use wires capable of withstanding temperatures of at least 80 °C.

The recommended torque setting for terminals is 0.5 – 0.67 Nm (input side) and 0.49 Nm (output side).

	Fuse	Circuit breaker	
	T3.15A/H250V	C16	D16
Number of power supplies	1	12	24

3.3 Safety instructions

- Risk of electrical shock and energy hazard. Any failures should be inspected by a qualified technician. Do not attempt to remove the power supply case yourself!
- Risk of electric arcs and shock (life-threatening).
  It is prohibited to connect the primary and secondary sides together.
- Risk of burn hazard. Avoid touching the unit while it is operating and immediately after it has been disconnected!
- Risk of fire and short circuit. Ensure the openings are protected from foreign objects and dripping liquids.
- Avoid installing the unit in areas with high moisture or near water.
- Disconnect the system from the supply voltage:
  Before starting any installation, maintenance, or modification work, ensure your system is disconnected from the supply voltage.
  Make certain that accidental reconnection is impossible!

4. Miscellaneous

4.1 Disposal

According to the WEEE directive return old equipment at appropriate collection facilities.

4.2 Additional information

Additional technical information at www.tridonic.com → Technical Data
Guarantee conditions at www.tridonic.com → Services

Lifetime declarations are informative and represent no warranty claim.
No warranty if device was opened.