

Light barrier amplifier

pantron
sensor technology

PSU-1000S

Features

- Operation voltage 95 ... 265 V AC / 47 ... 63Hz
- Output voltage 24 V DC
- Output power 8,4 W
- Overload protection, short circuit proof
- Overtemperature protection
- External fuse is not necessary
- High efficiency >74%
- Switching on current limiter
- Mounting for DIN rail EN 60715

Safety Instructions



Warning!

The power supply unit PSU-... are not safety systems and should not be used as such systems.

The devices are not to be used for applications, where personal safety is dependent on their function.

Short Description

The power supply PSU-1000S supplies direct current devices with maximum power consumption up to 8,4 W. Modern and extreme energy-saving switching power supply technology enables a high efficiency of more than 74%.

The device has a wide range alternating voltage input from 95 V AC up to 265 V AC and supplies a selected, constant, and stabilized direct current voltage of 24 V DC with a maximum current of 350 mA. The voltage output is short circuit proof, overload and overtemperature protected.

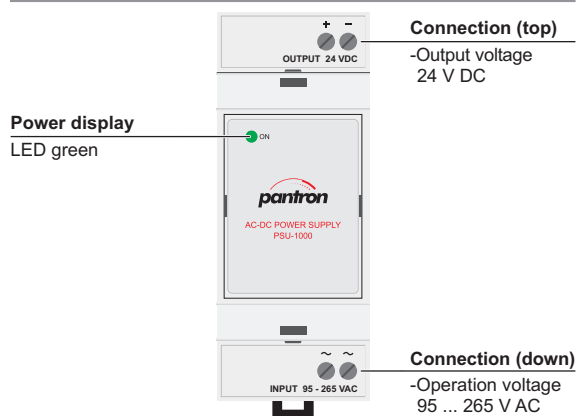
No fuse is necessary on the input side and the switching-on current limiter prevents overloading during switching-on. Using a safety transformer guarantees a galvanic separation from the operation voltage (EN 61558).

A constantly illuminated, green shining LED shows, that the device supplies the direct current devices correctly. Several PSU-1000S... can be connected in parallel or in series.

The case has the standard dimensions according to DIN 43880. Easy and quick mounting on the standard DIN rail is possible (EN 60715).



Device Overview



Ordering Table

Type	Order code
Power supply unit 95...265 V AC	PSU-1000S/95-265VAC
Accessories	
Protective enclosure	PanBox 1x1

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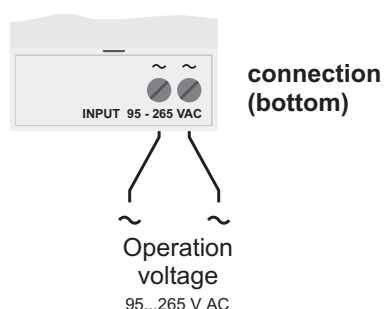
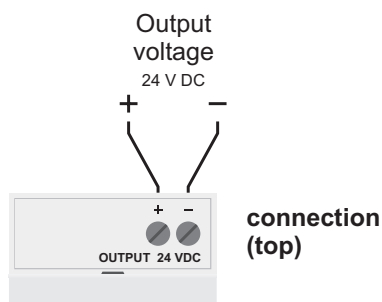
Technical Data (at 20 °C / 68 °F)

Operating voltage	95 ... 265 V AC
Power consumption	max. 11 VA
Current consumption:	230 V AC < 100 mA 115 V AC < 200 mA
Power loss (max.) ¹ (EN 61439)	230 V AC: 1,4 W 115 V AC: 0,8 W
External fuse	not necessary
Overvoltage protection (IN)	< 2,0 kV
Power display	LED green
Parallel connection	yes
Series connection	yes
Housing material	NORYL (self-extinguishing) UL 94 V-0
Housing colour	grey RAL 7035
Protection class	IP20
Operation temperature	-25 °C ... 50 °C
Storage temperature	-40 °C ... 80 °C

Output voltage	24 V DC, short circuit proof
Voltage tolerance	± 5%
Output current	350 mA
Remaining ripple	< 60 mV _{ss} (20 MHz bandwidth)
Buffer time:	230 V AC with I _{max} > 50 ms 115 V AC with I _{max} > 16 ms
Overvoltage protection (OUT)	< 1,3 x output voltage
Emission	EN 50081-1: EN 55011-1A
Immunity	EN 50082-1
Isolation test voltage according to EN 60950	IN - OUT 2,5 kV AC
MTBF (IEC 61709)	6,2·10 ⁶ h (T _a = 40 °C / 104 °F)
Mounting	DIN rail EN 60715
Electrical connection	screw terminal 0,14 - 2,5 mm ²

¹ Without load at the output

Connection Diagram



Dimensions (in mm)

