

# POS-500-12

Power Supply Unit 500W



Features:

- The European range of input voltage
- Security: Short circuit / overload / overvoltage / Thermal
- Cooling forced convection (fan activated thermally)
- LED signaling activation
- High efficiency

## ELECTRICAL SPECIFICATIONS

<b>MODEL</b>	<b>POS-500-12</b>
<b>OUTPUT</b>	
<b>Rated voltage</b>	12V
<b>Rated current</b>	40A
<b>Power range</b>	0 ÷ 480W
<b>Rated power</b>	480W
<b>Voltage adjustment range</b>	10.8 ÷ 13.2V
<b>Stabilization <math>U_{WY}</math> depending on changes <math>U_{WE}</math></b>	± 1%
<b>Stabilization <math>U_{WY}</math> depending on changes <math>I_{WY}</math></b>	± 2%
<b>Tolerance [3]</b>	± 5%
<b>Ripple and noise (max.) [2]</b>	600mV <sub>p-p</sub>
<b>INPUT</b>	
<b>The range of values of voltage</b>	180 ÷ 264VAC
<b>The frequency range of voltage</b>	47 ÷ 63Hz
<b>Efficiency (typ.)</b>	82%
<b>AC current (typ.)</b>	6A / 230VAC
<b>Starting current (typ.)</b>	75A / 230VAC(25°C)
<b>Leakage Current (max.)</b>	1mA / 230VAC
<b>SECURITY</b>	
<b>Overcurrent</b>	Range: 105 ÷ 135%
	Type: Limiting the output voltage in proportion to the increase in current overload. Automatic return to normal operation after the cause.
<b>Short circuit</b>	Type: Alternating est. / Off. output voltage. Automatic return to normal operation after the cause.
<b>Overvoltage</b>	15.6 ÷ 17.8V
	Type: cutting off the output voltage. Back to normal operation after disconnecting and re-attached the input voltage.
<b>Thermal</b>	Range: 110 ° C ± 10 ° C (detection of the heat sink power rectifier diodes on thesecondary side) temperature > 55 ° C - switching the fan; temp < 50 ° C - switching off the fan
	Type: Alternating est. / Off. output voltage. Automatic return to normal operation when the temperature is lowered.

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## WORKING ENVIRONMENT

<b>Working temperature</b>	-10°C ÷ 50°C
<b>Operating humidity</b>	20 ÷ 90% Relative humidity (non-condensing)
<b>Temperature and humidity storage</b>	-20°C ÷ 70°C, 10 ÷ 98% relative humidity (non-condensing)
<b>Vibration resistance</b>	10 ÷ 500Hz, 2G, 10min / period, periodically for 30 min. axis X, Y, Z

## SAFETY AND ELECTROMAGNETIC COMPATIBILITY

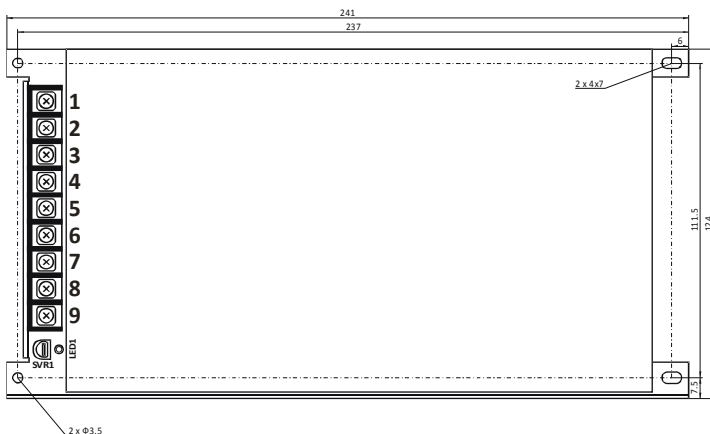
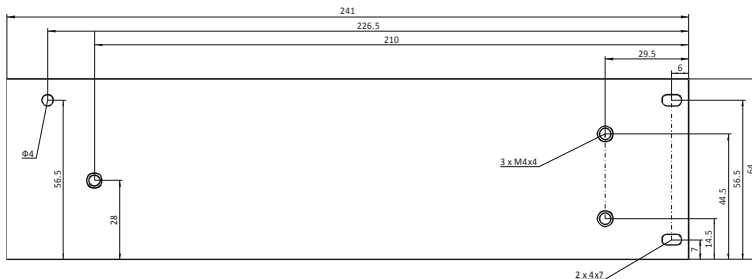
<b>Safety standards</b>	Compatibility z EN60950-1
<b>Insulation strength</b>	IN/OUT 3kVAC/1min; IN/GROUNDING: 1.5kVAC/1min; OUT/GROUNDING: 0.5kVAC/1min
<b>EMC emission standards</b>	Compatibility z EN55022
<b>EMC immunity</b>	EN61000-4-2, -4, -5, -11

## OTHERS

<b>Dimensions</b>	241 x 124 x 64mm (length Width Height)
<b>Weight and packing</b>	1.4kg; 16 pcs./ carton; weight cardboard with power supplies: 21.8kg

1. These parameters (unless otherwise noted) was measured for voltage 230VAC, rated load at an ambient temperature of 25 ° C.
2. Ripple and noise was measured for the 20MHz bandwidth using twisted wires measuring capacitors and 0.1µF and 47µF connected together in parallel.
3. Tolerance expresses the maximum divergence of the output voltage reflect changes in the switching, depending on changes in input voltage and depending on zmianprądu load.
4. Fixture time and rise is measured in the range of 0 ÷ 90% of the rated output voltage.
5. The power supply meets safety and electromagnetic compatibility. If you install the adapter in the final device as a unit must perform study to verify fulfillment of the standards for the whole system.

## TECHNICAL SPECIFICATIONS



Nr	Function	Nr	Function
1	Input : AC/L	4,5,6	Output : COM
2	Input: AC/N	7,8,9	Output : +V
3	Grounding : GND	SVR1	Adjustable output voltage
		LED1	arming