

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

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

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

SAFETY AND ELECTROMAGNETIC COMPATIBILITY

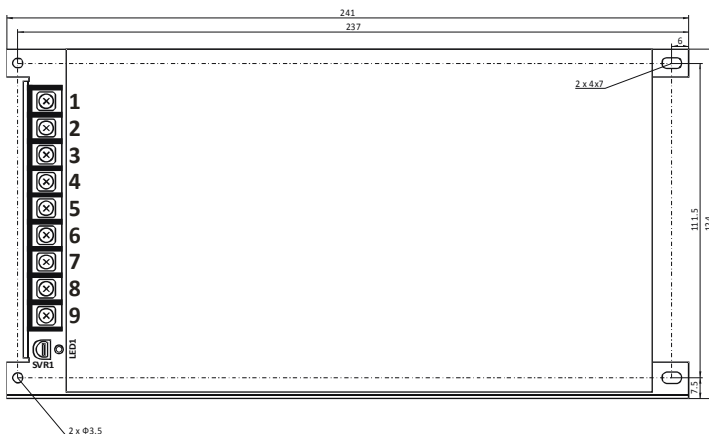
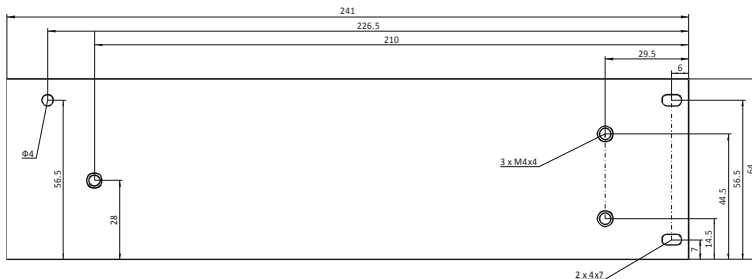
Safety standards	Compatibility z EN60950-1
Insulation strength	IN/OUT 3kVAC/1min; IN/GROUNDING: 1.5kVAC/1min; OUT/GROUNDING: 0.5kVAC/1min
EMC emission standards	Compatibility z EN55022
EMC immunity	EN61000-4-2, -4, -5, -11

OTHERS

Dimensions	241 x 124 x 64mm (length Width Height)
Weight and packing	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