

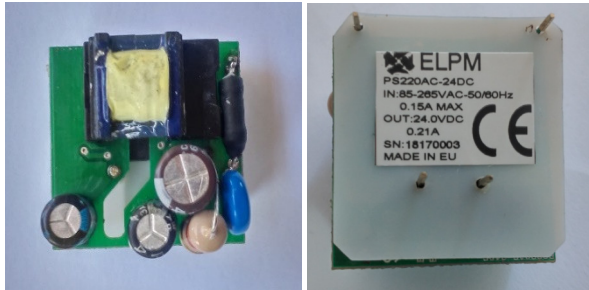
POWER SUPPLY PS220AC-24DC

Datasheet

Rev. 1



Design, Manufacture, Service
for Electric and Electronic Equipments
office@elpm.ro | www.elpm.ro



DESTINATION

Switching mode power supply
PS220AC-24DC is intended for standalone use, or to be mounted in various circuits or electronic equipment.

DESCRIPTION

The power supply is an open frame type; its main features are:

- Regulated and protected output voltage;
- Various protections: short circuit, overload; over temperature;
- Switching frequency: 130kHz;
- High reliability;
- Reduced size and price.

PART NUMBERING

PS220AC-24DC:

SIGNIFICATION

PS	power supply
220AC	input 220 V a.c.
24DC	Output voltage: 24V d.c.



Design, Manufacture, Service
for Electric and Electronic Equipments
office@elpm.ro | www.elpm.ro

S

ELECTRICAL CHARACTERISTICS

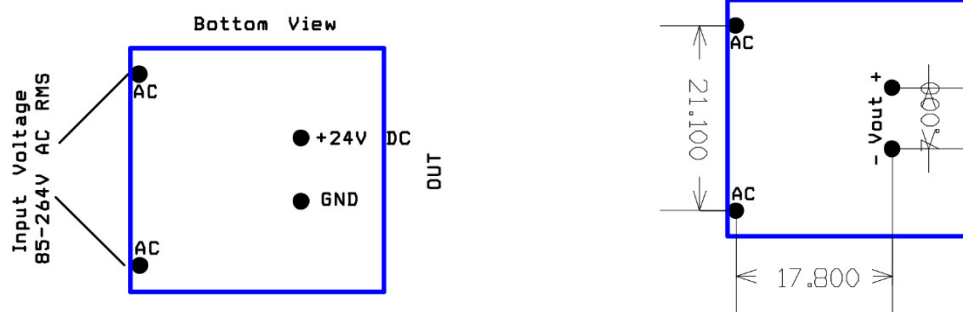
	Parameter	Value
INPUT	Input voltage range:	85-264 V a.c. ; 120-370 V d.c.
	Input voltage frequency	48-63 Hz
	Efficiency	0.75
	Input current (maximum)	0.15A/85 V c.a.; 0.06A/230 V c.a.
	Inrush current	Max. 40 A
OUTPUT	Nominal output voltage	24 V d.c.
	Nominal output current, I_N	0.21A
	Output current range	0 – 0.22 A
	Nominal power	5 W
	Peak output power (max. 10 s)	5.5 W
	Output voltage ripple	150 mVpk-pk
	Output voltage tolerance	± 2.5 %
	Line regulation	± 1%
	Start-up time	20 ms
	Hold-up time	40 ms /230 V a.c., at full load; 8ms/85V c.a. , at full load



Design, Manufacture, Service
for Electric and Electronic Equipments
office@elpm.ro | www.elpm.ro

	Parameter	Value
PROTECTIONS	Short-circuit	Cycle-by-cycle short circuit detection
	Overload	110-150 % , hiccup recovery mode
	Over temperature	142°C typical; recovery mode; 75 °C hysteresis;
ENVIRONMENT	Working temperature	-10 ÷ +60°C
	Humidity	20-90% non-condensing
	Storage conditions	-20 ÷ +85°C/ 10-95%
CONFORMITY	Security	IEC60950-1 CB
	Withstanding voltage	3 kV a.c.
	EMC; EMS	EN 55032 (CISPR32) Class B; EN61000-3-2, -3 EN 61000-4-2,3,4,5,6,8,11; light level industry; criteria A;

WIRING DIAGRAM, MOUNTING



The power supply has the outer dimensions of 29 x 28 x 18 mm, and four pin male headers for mounting on PCB.

STORAGE, MARKING, TRANSPORTATION

The marking on the product is made legible and durable on every unit and it includes the following information:

- Company logo;
- Product type;



Design, Manufacture, Service
for Electric and Electronic Equipments
office@elpm.ro | www.elpm.ro

- Serial number;
- Input and output voltage and current.

DELIVERY SET

The product will be delivered packed in cardboard boxes together with product's datasheet, conformity declaration and guaranty certificate.

MECHANICAL SIZES

L x l x h = 29 x 28 x 18 mm