Industrial DIN rail power supply RPS-120



New

Preidol 🖁

RPS-120: DIN rail power supply for automation systems, in metal cover. They are designed for direct mounting on 35 mm DIN rail mount, EN 50022 (wires connection: input - 2 terminals, output - 4 terminals).

Features of RPS-120:

AC input range selectable by switch,
 protections: short circuit, overload,
 overvoltage, overtemperature,

- cooling by free air convection,
- LED indicator for power on,
- 100% full load burn-in test,
- fixed switching frequency at 55 kHz,
- high efficiency and low dissipation,
- low nois and interference,
- 3 years warranty.

Compliance with safety standards: UL508, UL60950-1, TUV EN60950 Approved.

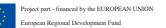
Compliance with EMC standards **0**: - EMI conduction & radiation: EN55011, EN55022 (CISPR22) Class B,

- harmonic current: EN61000-3-2,-3, Class A,

- EMS immunity: EN61000-4-2,3, 4,5,6,8,11, ENV50204, EN61000-6-2 (EN50082-2) Heavy industry level, criteria A.

Recognitions and certifications: (€

• The power supply is considered a component which will be installed into a final equipment. The final equipment must be reconfirmed that it still meets EMC directives.





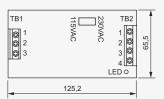
www.relpol.com.pl

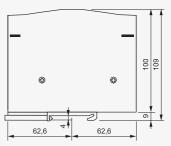


industrial DIN rail power supply RPS-120

Туре	RPS-120-12	RPS-120-24	
Output circuit			
DC voltage	12 V	24 V	
Rated current	10A	5A	
Current range	010 A	05A	
Rated power	120 W	120 W	
Max. ripple & noise 🛛	80 mVp-p	80 mVp-p	
Voltage adjustment range	1214 V	2428 V	
Voltage tolerance 🛛	± 2%	± 1%	
Line regulation	± 0,5%	± 0,5%	
Load regulation	± 1%	± 1%	
Setup	500 ms 115 V AC	500 ms 115 V AC 500 ms 230 V AC	
Voltage increase time	70 ms 115 V AC 70 ms 230 V AC		
Voltage support time	30 ms 115 V AC	30 ms 230 V AC	
Input circuit			
Voltage range	88132 V AC / 176264 V AC change by switch 120370 V DC		
Frequency range	476	63 Hz	
Efficiency (typical)	80%	84%	
AC current	2,8 A 115 V AC	1,7 A 230 V AC	
Max. inrush current	cold start: 30 A 115 V	AC 60 A 230 V AC	
Leakage current	< 3,5 mA 240 V AC		
General data			
Protection			
• overload 🛛	105150% of rated load		
• overvoltage	1516,5 V	2933 V	
overtemperature	+85 °C ± 5 °C (TSW1)	+90 °C ± 5 °C (TSW1)	
Min. insulation resistance	between input and output	tput: 100 MΩ 500 V DC	
Insulation dielectric strength	between input and o	en input and output: 3 000 V AC	
	between input and ground	1: 1 500 V AC 1 minute	
Dimensions $(L x W x H)$	65,5 x 125,2 x 109 mm		
Weight	80	0 g	
Ambient temperature			
 storage 	-20+85 °C		
 operating Image I	-10+60 °C		
Humidity			
• storage	1095% RH		
 operating 	2090% RH non-condensing		
Temperature impact	± 0,03% / °C 0+50 °C		
Vibration resistance	2 g 10 min. / 1 cycle, period for 60 min. each along X, Y, Z axes 10500 Hz		
MTBF	136,8 K hrs min. MI	L-HDBK-217F +25 °C	

Dimensions





Terminal	Pin No. /	Assignment	(TB1)
----------	-----------	------------	-------

Pin No.	Assignment	
1	FG 🕀	
2	AC/N	
3	AC/L	

Terminal Pin No. / Assignment (TB2)

Pin No.	Assignment	
1,2	DC OUTPUT +V	
3,4	DC OUTPUT -V	

All parameters NOT specially mentioned are measured at 230 V AC input, rated load and +25 °C of ambient temperature.

 Ø Ripple & noise are measured at 20 MHz of bandwidth by using a 12^e twisted pair-wire terminated with a 0,1 uf & 47 uf parallel capacitor.

 Ø Tolerance: includes set up tolerance, line regulation and load regulation.

O Protection type: constant current limiting, recovers automatically after fault condition removed.

Protection type: shut down output voltage, re-power on to recover.

Protection type: shut down output voltage, recovers automatically after temperature goes down.
Refer to output load derating curve.

Peipol [®] s.a.

