





Features :

- Plastic case, Ultra slim
- Support wide range of AC/DC auxiliary supply
- Efficiency > 89% @ 230V AC
- Full power between -25°C to +50°C
- Protection against short circuit, overload, overvoltage & over temperature
- Cooling by free air convection

Certification :  

Display specifications

Indication	LED for DC ON
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Input specifications

Voltage range	100 - 240V AC $\pm 10\%$, 127 - 370V DC
Frequency range	50 / 60Hz
AC current (Typ.)	2.2A @ 115V AC 1.5A @ 230V AC
Efficiency (Typ.)	>89% @ 230V AC
Inrush current	<48Amps; Measured at 264V AC, 25°C Ambient, Cold start
Start up time	<1sec @230VAC & < 3sec @115VAC, full load

Output specifications

Output voltage	24 - 28V DC
Output current	5A at 24V; 4.29A at 28V
Ripple and Noise*	<1% of Vout
Line and load regulation	$\pm 1\%$
Hold up time	≥ 60 ms at 230V AC & ≥ 15 ms at 115V AC, Full load
Series operation	Possible for up to two power supplies (with external diode)

* Measured at 20MHz of bandwidth by using 0.4uF & 10uF parallel capacitor

Protections

Input fused	3.15A - 250V AC Internal
Output over load	110% to 140% of rated output current protection type : Hiccup mode; recovers automatically after fault condition is removed.
Output short circuit	Hiccup mode when output is shorted; Recovers automatically after fault condition is removed.
Output over voltage	31.5V DC ± 1 V DC Protection type : Latched; Input AC power has to be recycled to recover the power supply.
Over temperature	Power supply shuts down when the temperature of PCB below main transformer reaches typically 120°C; Turns on only after the temperature falls below 90°C typically and AC power is recycled thereafter.

Environment specifications

Operating temperature*	-25°C to +70°C
Storage temperature	-40°C to +85°C
Humidity	5 to 95% RH, Non condensing
Altitude	2000m

* De-rate output power at 3W/°C above +50°C Ambient.

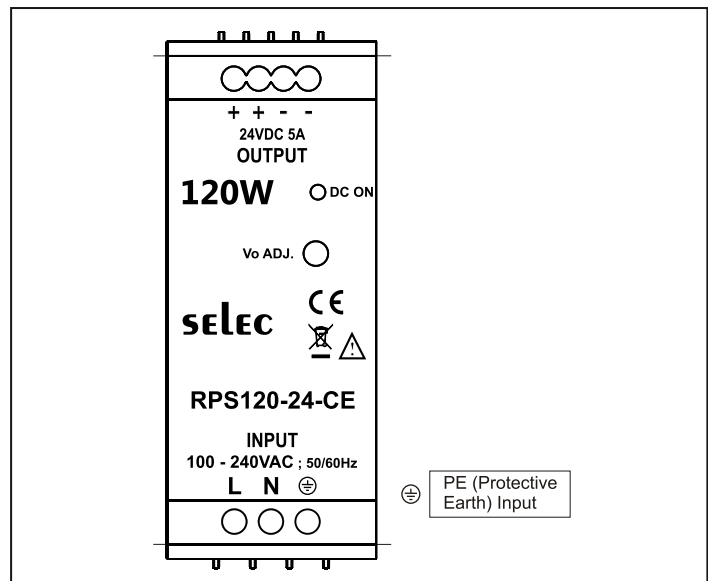
Mechanical specifications

Mounting	Din rail
Dimension	43*109.8*102.7mm (W*H*D)
Weight	350 gms

Safety & EMC

Dielectric withstand voltage	I/P to Earth	: 2500V AC
	I/P to O/P	: 4000V AC
	O/P to Earth	: 1500V AC

Terminal connections



Compliance

Applicable EMI / EMC Standards		
Product Standard		
Category	Reference Standards	Testing Level
Conducted Emission	CISPR11	CLASS A
Radiated Emission	CISPR22	CLASS A
Electrostatic Discharge	IEC61000-4-2	Level 4, Criteria A Level 3, Criteria A
Radiated Susceptibility	IEC61000-4-3	Level 3, Criteria B
Electrical Fast Transient / Burst	IEC61000-4-4	Level 3, Criteria A
Surge	IEC61000-4-5	Level 3, Criteria A
Conducted Susceptibility	IEC61000-4-6	Level 3, Criteria B
Power Frequency Magnetic Field	IEC61000-4-8	Level 4, Criteria A
Voltage Dips & Interruption	IEC61000-4-11	CLASS 3, Criteria A & B
TUV	Designed to meet IEC62368-1	
Safety	IEC62368-1	PASS

Ordering information

Product code	Description	Certification
RPS120-24-CE	120W, 24V/5A DIN rail mounted Power Supply in Plastic Housing	