RPS120 | INDUSTRIAL POWER SUPPLIES





Features:

- Supports 90 264 VAC / 127 370 VDC
- Efficiencies up to 89 %
- Protection against short circuit, overload, overvoltage & over temperature
- Cooling by free air convection
- UL 508 approved (E522848)

Model Number Legend:

RPS120 - 🔲 🔲 - CU

1. Output Voltage: 12: 12 V

15: 15 V 24: 24 V

Certification : (\mathbf{C} \mathbf{C} \mathbf{ROHS} \mathbf{C} \mathbf{C}

SPECIFICATIONS:

MODEL		RPS120-12-CU	RPS120-15-CU	RPS120-24-CU	RPS120-48-CU	
	NOMINAL DC VOLTAGE	12 V	15 V	24 V	48 V	
	RATED CURRENT	8 A	8 A	5 A	2.5 A	
	CURRENT RANGE	0 - 8 A	0 - 8 A	0 - 5 A	0 - 2.5 A	
	RATED POWER	96 W	120 W	120 W	120 W	
	RIPPLE & NOISE (max)	<1% of Vout	<1% of Vout	<1% of Vout	<1% of Vout	
OUTPUT	VOLTAGE ADJ. RANGE	12 to 14 V	15 to 17.5 V	24 to 28 V	48 to 56 V	
OUTFUT	VOLTAGE TOLERANCE	± 1 %				
	LINE REGULATION	± 1 %				
	LOAD REGULATION	± 1 %				
	TURN ON TIME	< 1 sec @ 230 VAC & < 3 sec @ 115 VAC, Full load				
	HOLD UP TIME	≥ 60 ms at 230 VAC & ≥ 15 ms at 115 VAC, Full load				
	RISE TIME	< 100 ms				
	VOLTAGE RANGE *	90 - 264 VAC / 127 - 370 VDC				
	FREQUENCY RANGE	50 / 60 Hz				
	EFFICIENCY @ 230V AC	Up to 89 %	Up to 89 %	Up to 89 %	Up to 89 %	
INPUT	AC CURRENT	2.2 A @ 115 VAC; 1.5 A @ 230 VAC				
	INRUSH CURRENT	< 48 Amps; Measured at 264 VAC, 25°C Ambient, Cold start				
	LEAKAGE CURRENT	< 1 mA; 264 VAC input				
PROTECTION	OVERLOAD	> 110 % of rated output current; Hiccup type; Autorecovery				
	OVERVOLTAGE	17V DC ±1V DC	20V DC ±1V DC	31.5V DC ±1V DC	61V DC ±2V DC	
		Latched type; Input AC power to be recycled to recover the power supply				
TROTEGION	OUTPUT SHORT CIRCUIT	Hiccup mode when output is shorted; Autorecovery type.				
	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	OPERATING TEMP	- 25°C to + 70°C; De-rate linearly above 50°C from 100 % load at 50°C to 50 % load at 70°C, - 25°C to 0°C startup is guaranteed with spec deviation (Output ripple can be more than 10 % of the output voltage.)				
	STORAGE TEMP	- 40°C to + 85°C				
	COOLING	Natural convection cooled				
	HUMIDITY	5 to 95 % RH, Non condensing				
	ALTITUDE	2000 m				
	VIBRATION	Component: 10 ~ 500 Hz, 2 G 10 min. / 1 cycle, period for 60 min. each along X, Y, Z axes				
SAFETY & EMC	DIELECTRIC WITHSTAND VOLTAGE	I/P to Earth: 2500 VAC I/P to O/P: 4000 VAC O/P to Earth: 1500 VAC				
	DIMENSION	43 x 109.8 x 102.7mm (W x H x D)				
OTHERS	WEIGHT	350 gms				
UITEKS	WEIGHT					

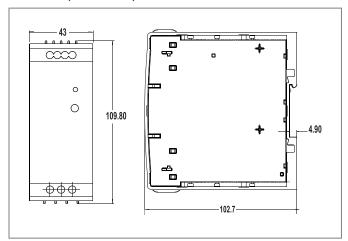
^{*} Although power supply will work for the specified DC input voltage range, UL approval is only for the specified AC input voltage range.

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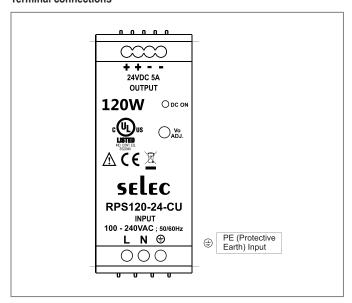
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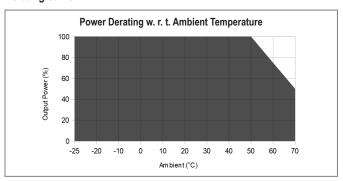
Dimensions (All are in mm)



Terminal connections



Derating curve



Compliance

Applicable EMI / EMC Standards						
Category	Reference Standards	Testing Level				
Conducted Emission	CISPR11	CLASS A				
Radiated Emission	CISPR22	CLASS A				
Electrostatic Discharge	IEC 61000-4-2	Level 4, Criteria A Level 3, Criteria A				
Radiated Susceptibility	IEC 61000-4-3	Level 3, Criteria B				
Electrical Fast Transient / Burst	IEC 61000-4-4	Level 3, Criteria A				
Surge	IEC 61000-4-5	Level 3, Criteria A				
Conducted Susceptibility	IEC 61000-4-6	Level 3, Criteria B				
Power Frequency Magnetic Field	IEC 61000-4-8	Level 4, Criteria A				
Voltage Dips & Interruption	IEC 61000-4-11	Criteria A & B				
Safety	UL 508 approved (E522848) Designed to meet IEC 62368-1					

Ordering information

Product Code	Description	Certification
RPS120-12-CU	96 W, 12 V / 8 A Din rail mounted Power Supply in Plastic Housing	CE ROHS CULJUS
RPS120-15-CU	120 W, 15 V / 8 A DIN rail mounted Power Supply in Plastic Housing	CE ROHS CONTRIBUTED
RPS120-24-CU	120 W, 24 V / 5 A DIN rail mounted Power Supply in Plastic Housing	CE ROHS COMPIUM
RPS120-48-CU	120 W, 48 V / 2.5 A DIN rail mounted Power Supply in Plastic Housing	CE ROHS COMPLISTED

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