RPS120 INDUSTRIAL POWER SUPPLIES



Features :

• Supports 90 - 264 VAC / 127 - 370 VDC

- Efficiencies up to 89 %
 Protection against short circuit, overload, overvoltage & over temperature
 Compact size and 1V low profile
- Cooling by free air convection
- UL 508 approved (E522848)

Model Number Legend:
RPS120 - 🗌 🔲 - CU
1 1. Output Voltage: 12: 12 V
15: 15 V
24: 24 V
48: 48 V

Certification : CE

SELEC

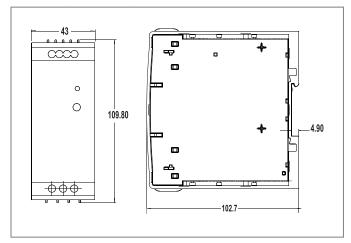
SPECIFICATIONS:

MODEL		RPS120-12-CU	RPS120-15-CU	RPS120-24-CU	RPS120-48-CU	
OUTPUT	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	
	VOLTAGE ADJ. RANGE	12 to 14 V	15 to 17.5 V	24 to 28 V	48 to 56 V	
	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 @ 230 V 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			
	OVERLOAD	> 110 % of rated output current; Hiccup type; Autorecovery				
		17 V DC ± 1 V DC	20 V DC ± 1 V DC	31.5 V DC ± 1 V DC	61 V DC ± 2 V D0	
ROTECTION	OVERVOLTAGE	Latched type; Input AC power to be recycled to recover the power supply				
KOTECHON	OUTPUT SHORT CIRCUIT	Hiccup mode when output is shorted; Autorecovery type.				
	OVER TEMPERATURE	Power supply shute Turns on only a	s down when the temperature of P after the temperature falls below 9	CB below main transformer reac 0°C typically and AC power is rea	hes typically 120°C; cycled thereafter	
	OPERATING TEMP	 - 25°C to + 70°C; De-rate linearly above 50°C from 100 % load at 50°C to 50 % load at 70° - 25°C to 0°C startup is guaranteed with spec deviation (Output ripple can be more than 10 % of the output - 40°C to + 85°C 				
	STORAGE TEMP					
NVIRONMENT	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					
OTHERS	WEIGHT		350	gms		
	MOUNTING	35 mm DIN rail				

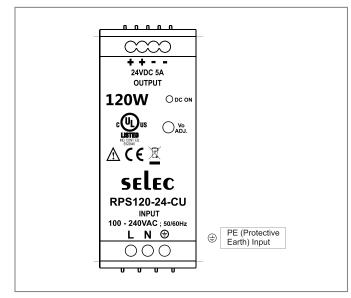
* Although power supply will work for the specified DC input voltage range, UL approval is only for the specified AC input voltage range.

RPS120 | INDUSTRIAL POWER SUPPLIES _____

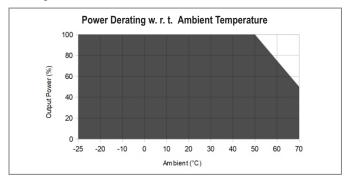
Dimensions (All are in mm)



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	
RPS120-15-CU	120 W, 15 V / 8 A DIN rail mounted Power Supply in Plastic Housing	
RPS120-24-CU	120 W, 24 V / 5 A DIN rail mounted Power Supply in Plastic Housing	
RPS120-48-CU	120 W, 48 V / 2.5 A DIN rail mounted Power Supply in Plastic Housing	