



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. Output Voltage:
- 12: 12 V
 - 15: 15 V
 - 24: 24 V
 - 48: 48 V

Certification :

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				
INPUT	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 %
	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	17 V DC ± 1 V DC	20 V DC ± 1 V DC	31.5 V DC ± 1 V DC	61 V DC ± 2 V DC
	OUTPUT SHORT CIRCUIT	Latched type; Input AC power 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	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			
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 102.7 mm (W x H x D)			
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.

Dimensions (All are in mm)



Terminal connections



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

Derating curve

