

SELEC**RPS120-24-CU**
Operating Instruction**FEATURES**

- > AC 100-240V Wide-range Input.
- > Cost optimized without compromising quality or reliability.
- > Full power between -25°C and +50°C.
- > Compact size.

INTENDED USE

This device is designed for installation in an enclosure and is intended for the general professional use such as in instrumentation equipment, office, industrial control and communication .
Do not use this power supply in equipment where malfunction may cause severe personal injury or threaten human life.

INPUT SPECIFICATIONS

INPUT VOLTAGE RANGE	100 - 240VAC $\pm 10\%$; 127 - 370VDC
FREQUENCY RANGE	50-60Hz
EFFICIENCY(TYP.)	>89% @ 230VAC
AC CURRENT(TYP.)	2.2A @ 115VAC; 1.5A @ 230VAC
INRUSH CURRENT(TYP.)	<48Amps; Measured at 264VAC, 25°C Ambient, Cold Start
START UP TIME	<1Sec@ 230VAC & <3 Sec@115VAC, Full Load

OUTPUT SPECIFICATIONS

OUTPUT VOLTAGE	24 - 28VDC
OUTPUT CURRENT	5A at 24V; 4.29A at 28V
RIPPLE AND NOISE	<1% of V_{out} *
LINE AND LOAD REGULATION	$\pm 1\%$
HOLD UP TIME	≥ 60 ms at 230VAC & ≥ 15 ms at 115VAC, Full Load
SERIES OPERATION	Possible for up to two power supplies (with external diode)

* Ripple & Noise measured at 20MHz of bandwidth by using 0.1 μ F & 10 μ F parallel capacitor.

PROTECTIONS

INPUT FUSED	3.15A - 250VAC Internal
OUTPUT OVER LOAD	$\geq 110\%$ 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	31.5VDC ± 1 VDC 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 there after.

ENVIRONMENT

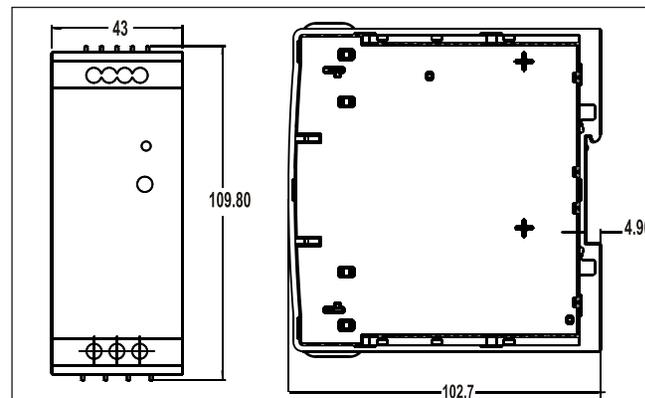
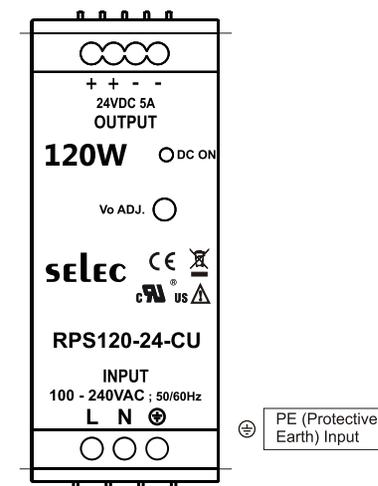
OPERATING TEMPERATURE	-25°C to +70°C *De-rate output power at 3W/°C above +50°C Ambient.
STORAGE TEMPERATURE	-40°C to +85°C.
HUMIDITY	5 to 95% RH, Non Condensing
ALTITUDE	2000m

SAFETY & EMC

SAFETY STANDARDS	Designed to meet IEC 62368-1 Processing for UL-508
DIELECTRIC WITHSTAND VOLTAGE	I/P to Earth : 2500VAC I/P to O/P : 4000VAC O/P to Earth : 1500VAC
INSULATION RESISTANCE	100 M Ω min. (between all outputs and all inputs/ PE terminals) at 500 VDC
CONDUCTED EMISSION	EN55022 ; Class A
RADIATED EMISSION	EN55022 ; Class A
EMS IMMUNITY	Compliance to IEC61000-4-4,5,11

DIMENSIONAL DIAGRAM

DIMENSION	43*109.8*102.7mm (W*H*D)
WEIGHT	350 gms

**WIRING DIAGRAM****WIRING INSTRUCTIONS**

1. To prevent risk of electric shock, power supply equipment must be kept OFF while wiring.
2. Terminals and electrically charged parts must not be touched when the power is ON.
3. Wiring shall be done strictly according to terminal layout provided in the operating manual.

