RPS120-24-CU Operating Instruction

INPUT SPECIFICATIONS

FREQUENCY BANGE

EFFICIENCY(TYP.)

START UP TIME

OUTPUT VOLTAGE

OUTPUT CURRENT

RIPPLE AND NOISE

SERIES OPERATION

HOLD UP TIME

PROTECTIONS

OUTPUT OVER LOAD

OUTPUT SHORT CIRCUIT

OUTPUT OVER VOLTAGE

OVER TEMPERATURE

INPUT FUSED

LINE AND LOAD REGULATION

AC CURRENT(TYP.)

INRUSH CURRENT(TYP.

OUTPUT SPECIFICATIONS

INPUT VOLTAGE RANGE



FEATURES

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

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

100 - 240VAC ±10% ; 127 - 370VDC

2.2A @ 115VAC: 1.5A @ 230VAC

<48Amps: Measured at 264VAC.

<1Sec@ 230VAC & <3 Sec@115VAC, Full Load

≥60ms at 230VAC & ≥15ms at 115VAC, Full Load

Possible for up to two power supplies

Protection type : Hiccup mode: recovers

Protection type : Latched; Input AC power has to be recycled to recover the power supply.

automatically after fault condition is removed.

automatically after fault condition is removed.

Hiccup mode when output is shorted; Recovers

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

25°C Ambient, Cold Start

5A at 24V; 4.29A at 28V

50-60Hz

24 - 28VDC

±1%

<1% of Vout *

(with external diode)

3.15A - 250VAC Internal ≥110% of rated output current

31.5VDC ± 1VDC

AC power is recycled there after.

★ Ripple & Noise measured at 20MHz of bandwidth by using 0.1uF & 10uF parallel capacitor.

>89% @ 230VAC

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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.

SAFETY & EMC Designed to meet IEC 62368-1 SAFETY STANDARDS Processing for UL-508 I/P to Earth : 2500VAC DIELECTRIC WITHSTAND I/P to O/P : 4000VAC VOLTAGE O/P to Earth : 1500VAC 100 M $_{\Omega}$ min. (between all outputs and all inputs/ INSULATION RESISTANCE 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	
WEIGHT	

43*109.8*102.7mm (W*H*D) 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.

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INSTALLATION INSTRUCTIONS

Attention:(Fig. 1)

- 1. Do not block the ventilation holes of power supply.
- 2. Keep at least 20mm clearance around the switching power supply.
- 3. The Equipment should not be installed in environmental conditions other than those specified in this manual.

Mounting:(Fig.2)

1. Slightly tilt the unit to engage on the top side of Din Rail mounting.

2. Press it downward until it gets locked in Din Rail.

Removal:(Fig.3)

- 1. Before removing power supply unit from Din Rail ensure that supply has been switched off.
- 2. Unscrew all the wire connections of power supply unit.
- 3. Insert a screw driver into the mounting clamp slot & pull it down to remove the power supply from Din Rail.

Risk of electrical shock, fire, personal injury or death. WARNING :

- 1. Do not use the power supply without proper grounding (Protective Earth).
- 2. Do not use in wet locations or in areas where moisture or condensation can be expected.
- Make sure mains power supply is off before wiring the power 3. supply unit. Make sure of correct wiring. Incorrect wiring may cause electrical shock or damage.
- 4. Do not touch the power supply during operation or immediately after turning off because some parts get hot or are at high voltage which may cause burns or electrical shock.
- Do not install the power supply where human body may come into 5. contact while power is supplied to the power supply.
- Do not repair the power supply at user end . Modification or 6. repairing of the power supply by users may cause electrical shocks, damage, & other accidents.
- 7. If damage or malfunction occurs during operation, immediately turn off mains power.

MEANING OF PRODUCT SAFETY SYMBOL



SAFETY INSTRUCTIONS

- > This manual is meant for personnel involved in wiring installation operation & routine maintenance of the equipment.
- ۶ Disconnect power supply of your system before starting any installation operation or wiring.
- > Improper installation operation or wiring may impair safety & failure of the unit or electrical shock or damage.
- Connect the ground completely. A protective earthing terminal stipulated in safety standards is used. Electric shock or malfunction may occur if ground is not connected properly.

? SERVICE DETAILS

This power supply is not field serviceable product. In case of failure or malfunction, send back the power supply to factory. Please contact service center for repair on the following numbers:

Tel. No. : +91-7498077172;

Email : service@selec.com NO WARRANTY ON UNIT DAMAGED DUE TO WRONG CONNECTION OF POWER SUPPLY.

(Specifications are subject to change, since development is a continuous process.)



CAUTION

Minor burns may occasionally occur. Do not touch the product while power is being supplied or immediately after power is turned OFF.	
If the external breaker or fuse is tripped, the equipment may have been seriously damaged. Do not turn ON the input again.	0
Minor injury due to electric shock may occasionally occur. Do not touch the terminals while power is being supplied.	<u>Å</u>
Minor electric shock, fire or product failure may occasionally occur. Do not allow any pieces of metal or conductors or any clippings or cuttings resulting from installation work to enter the product.	0



Factory Address : EL-27/1, Electronic Zone, TTC Industrial Area,

MIDC, Mahape, Navi Mumbai - 400 710, INDIA. Tel. No. : +91-22-28476443 / 1882 Fax No.: +91-22-28471733 | Toll free: 1800 227 353 Website: www.selec.com | Email: sales@selec.com