

FEATURES

- > Supports 90 264 VAC / 127 370 VDC
- Power factor > 0.95 @ full load over entire input range
- ➤ Efficiency up to 92 %
- Protection against short circuit, overload, overvoltage & over temperature
- Cooling by free air convection
- > UL 508 approved (E522848)

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 - 240 VAC ± 10 %; 127 - 370 VDC (Refer datasheet for input de-rating)		
FREQUENCY RANGE	50 - 60 Hz		
EFFICIENCY (TYP.)	Up to 92 % @ 230 VAC		
AC CURRENT (TYP.)	2.4 A @ 115 VAC; 1.2 A @ 230 VAC		
INRUSH CURRENT (TYP.)	< 60 Amps; measured at 264 VAC, 25°C Ambient, Cold start		
POWER FACTOR	> 0.95 @ Full load over entire input range		

OUTPUT SPECIFICATIO	DUTPUT SPECIFICATIONS		
OUTPUT VOLTAGE	12 - 14 VDC		
OUTPUT CURRENT	18 A at 12 VDC; 15.42 A at 14 VDC		
RIPPLE AND NOISE	< 1 % of Vout *		
LINE AND LOAD REGULATION	± 1 %		
START UP TIME	< 2 sec; Full load over entire input range ≥ 25 msec at 12 V & ≥ 16 msec at 14 V @ 115 / 230 VAC, Full Load		
HOLD UP TIME			
DC-OK CONTACT	30 VDC 1 A; 60 VDC 0.5 A; 125 VAC 0.5 A, resistive load; min. current 1mA		
SERIES OPERATION	Possible for up to two power supplies (with external diode)		

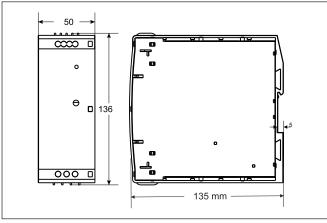
* Ripple & Noise measured at 20 MHz of bandwidth by using 0.1 uf &10 uf parallel capacitor.

PROTECTIONS	
INPUT FUSE	4 A - 250 VAC Internal
OUTPUT OVER LOAD	110% to 140% 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	16 VDC ± 0.5 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 PFC choke reaches typically 120°C; recovers automatically when temperature falls to typically 90°C.

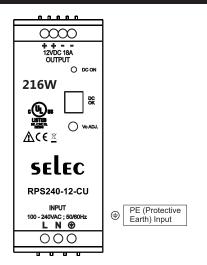
ENVIRUNMENT		
OPERATING TEMPERATURE	- 25°C to + 70°C *De-rate output power at 6 W /°C above + 50°C Ambient.	
STORAGE TEMPERATURE	- 40°C to + 85°C	
HUMIDITY	5 to 95 % RH, Non Condensing	
ALTITUDE	2000 m	

SAFETY & EMC		
SAFETY STANDARDS	UL-508 approved (File number : E522848) Designed to meet IEC 62368-1	
DIELECTRIC WITHSTAND VOLTAGE	I/P to Earth : 2500 VAC I/P to O/P : 4000 VAC O/P to Earth : 1500 VAC O/P to DC-OK : 500 VAC	
INSULATION RESISTANCE	100 M Ω min. (between all outputs and all inputs / PE terminals) at 500 VDC	
CONDUCTED EMISSION	CISPR32; Class B	
RADIATED EMISSION	CISPR32; Class A	
CURRENT HARMONICS	Class D	
EMS IMMUNITY	Compliance to IEC61000-4-4, 5, 11	

MECHANICAL	
DIMENSION	50 x 136 x 135 mm (W x H x D)
WEIGHT	645 gms



WIRING DIAGRAM



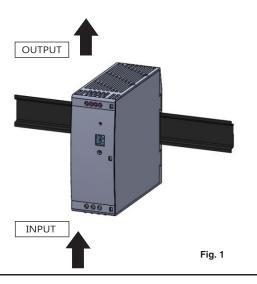
WIRING INSTRUCTIONS

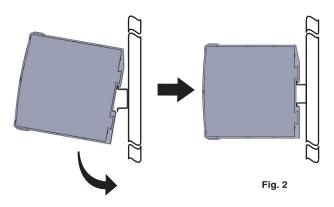
Recommended Wire size and Torque

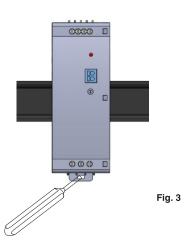
Connector	Wire size	Torque
Input	17 AWG	0.5 Nm
Output	14 AWG	0.5 Nm

- 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.

Doc. name: OP INST RPS240-12-CU OP1052-V03(Page 1 of 2)







INSTALLATION INSTRUCTIONS (POLLUTION DEGREE 2)

Attention: (Fig. 1)

- 1. Do not block the ventilation holes of power supply.
- 2. Keep at least 20 mm 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)

- 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.
- Insert a screw driver into the mounting clamp slot & pull it down to remove the power supply from Din Rail.

M WARNING:

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

- 1. Do not use the power supply without proper grounding (Protective Earth).
- 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 supply unit. Make sure of correct wiring. Incorrect wiring may cause electrical shock or damage.
- 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.
- 5. Do not install the power supply where human body may come into contact while power is supplied to the power supply.
- Do not repair the power supply at user end. Modification or repairing of the power supply by users may cause electrical shocks, damage & other accidents.
- If damage or malfunction occurs during operation, immediately turn off mains power.

MEANING OF PRODUCT SAFETY SYMBOL



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.

Un choc électrique mineur, un incendie ou une défaillance du produit peuvent survenir occasionnellement. Ne laissez pas de morceaux de métal ou de conducteurs ou de coupures ou de coupures résultant des travaux d'installation pénétrer dans le produit.



WEEE symbol for Electrical and Electronic Equipment waste management

Symbole DEEE pour la gestion des déchets d'équipements électriques et électroniques

SAFETY INSTRUCTIONS

- This manual is meant for personnel involved in wiring installation operation & routine maintenance of the equipment.
- 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:

NO WARRANTY ON UNIT DAMAGED DUE TO WRONG CONNECTION OF POWER SUPPLY.

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

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