





## Features :

- Plastic case
- Support 1 $\Phi$ , wide range AC/DC
- Power factor > 0.95 @ full load over entire input range
- Efficiency 93% @ 230V AC
- Start up time < 2 sec @ full load over entire input range
- Protection against short circuit, overload, overvoltage & over temperature
- Cooling by free air convection

Certification :  

## Display specifications

Indication	LED for DC ON
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## Input specifications

Voltage range	100 - 240V AC $\pm$ 10%, 127 - 370V DC
Frequency range	50 / 60Hz
AC current (Typ.)	2.4A @ 115V AC 1.2A @ 230V AC
Efficiency (Typ.)	93% @ 230V AC
Inrush current	<60Amps; Measured at 264VAC, 25°C Ambient. Cold start
Power factor	>0.95 @ Full load over entire input range
Start up time	<2sec @ Full load over entire input range

## Output specifications

Output voltage	24 - 28V DC
Output current	10A at 24V; 8.6A at 28V
Ripple and Noise*	<1% of Vout
Line and load regulation	$\pm$ 1%
Hold up time	$\geq$ 25ms at 24V & $\geq$ 16ms at 28V @ 115/230VAC, Full load
DC OK contact	Vout >23.0V = 1 Vout <22.5V = 0 Contact rating : 30V DC 1A; 60V DC 0.5A; 125V AC 0.5A; Resistive load, min current 1mA
Series operation	Possible for up to two power supplies (with external diode)

\* Measured at 20MHz of bandwidth by using 0.4uF & 10uF parallel capacitor

## Protections

Input fused	4A - 250VAC 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	31VDC $\pm$ 0.5VDC 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.

## Environment specifications

Operating temperature*	-25°C to +70°C
Storage temperature	-40°C to +85°C
Humidity	5 to 95% RH, Non condensing
Altitude	2000m

\* De-rate output power at 61/W°C above +50°C Ambient.

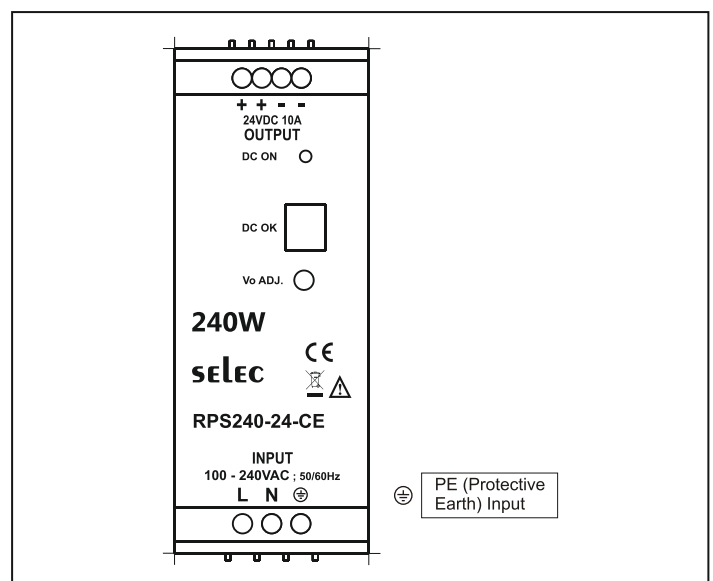
## Mechanical specifications

Mounting	Din rail
Dimension	50*136*135mm (W*H*D)
Weight	645 gms

## Safety & EMC

Dielectric withstand voltage	I/P to Earth	: 2500V AC
	I/P to O/P	: 4000V AC
	O/P to Earth	: 1500V AC
	O/P to DC-OK	: 500V AC
Current Harmonics	Class D	

## Terminal connections



## Compliance

Applicable EMI / EMC Standards		
Product Standard		
Category	Reference Standards	Testing Level
Conducted Emission	CISPR22	CLASS B
Radiated Emission	CISPR22	CLASS A
Electrostatic Discharge	IEC61000-4-2	Level 4, Criteria A Level 3, Criteria A
Radiated Susceptibility	IEC61000-4-3	Level 3, Criteria B
Electrical Fast Transient / Burst	IEC61000-4-4	Level 3, Criteria A
Surge	IEC61000-4-5	Level 3, Criteria A
Conducted Susceptibility	IEC61000-4-6	Level 3, Criteria B
Power Frequency Magnetic Field	IEC61000-4-8	Level 4, Criteria A
Voltage Dips & Interruption	IEC61000-4-11	CLASS 3, Criteria A & B
TUV	Designed to meet IEC62368-1	
Safety	IEC62368-1	PASS

## Ordering information

Product code	Description	Certification
RPS240-24-CE	240W, 24V/10A DIN rail mounted Power Supply in Plastic Housing	