# RPS480-24-CE



#### **Display specifications**

Indication	LED for DC ON
Input specifications	

Voltage range	100 - 240V AC ±10%,
	127 - 370V DC
Frequency range	50 / 60Hz
AC current (Typ.)	4.8A @ 115V AC
	2.4A @ 230V AC
Efficiency (Typ.)	93.5% @ 230V AC
Inrush current (Typ.)	<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	20A at 24V; 17.14A at 28V
Ripple and Noise*	<1% of Vout
Line and load regulation	±1%
Hold up time	≥25ms at 24V & ≥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 0.1uF & 10uF parallel capacitor.

#### Protections

3A - 250VAC Internal
110% to 140% of rated output current protection
ype : Hiccup mode; recovers automatically after
ault condition is removed.
Hiccup mode when output is shorted; Recovers
automatically after fault condition is removed.
31VDC ± 0.5VDC
Protection type : Latched; Input AC power has to
be recycled to recover the power supply.
Power supply shuts down when the temperature
of PCB below PFC choke reaches typically 120°C;
Turns ON only after the temperature falls to below
90°C typically and AC power is recycled thereafter.

## Features :

- Plastic case
- Support 1Φ, 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 : 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 12W/°C above +50°C Ambient.

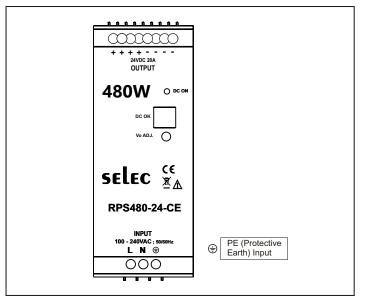
#### Mechanical specifications

Mounting	Din rail
Dimension	60*154*158.55mm (W*H*D)
Weight	1050 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	Category Reference Standards		
Conducted Emission	CISPR22	CLASS B	
Radiated Emission	CISPR22	CLASS A	
Electrostatic Discharge	tic Discharge IEC61000-4-2		
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	480W, 24V/20A DIN rail mounted Power Supply in Plastic Housing	