

**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

**Model Number Legend:**RPS480 -    - CE

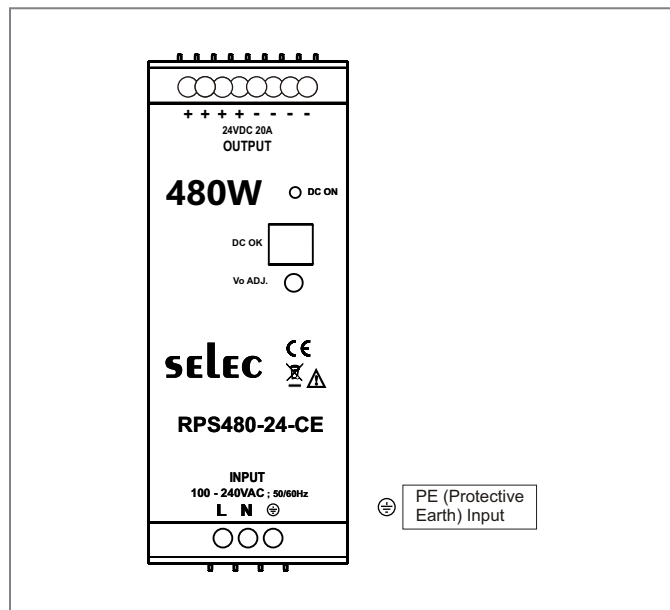
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1. Output Voltage: 24: 24V  
48: 48V

Certification :

**SPECIFICATIONS:**

| MODEL        |                              | RPS480-24-CE                                                                                                        | RPS480-48-CE                                                  |
|--------------|------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| OUTPUT       | NOMINAL DC VOLTAGE           | 24V                                                                                                                 | 48V                                                           |
|              | RATED CURRENT                | 20A                                                                                                                 | 10A                                                           |
|              | CURRENT RANGE                | 0 – 20A                                                                                                             | 0 – 10A                                                       |
|              | RATED POWER                  | 480W                                                                                                                | 480W                                                          |
|              | RIPPLE & NOISE (max)         | <1% of Vout                                                                                                         | <1% of Vout                                                   |
|              | VOLTAGE ADJ. RANGE           | 24 to 28 V                                                                                                          | 48 to 56 V                                                    |
|              | VOLTAGE TOLERANCE            | $\pm 1\%$                                                                                                           |                                                               |
|              | LINE REGULATION              | <1% of Vout                                                                                                         |                                                               |
|              | LOAD REGULATION              | $\pm 1\%$                                                                                                           |                                                               |
|              | TURN ON TIME                 | <3 sec; at full load                                                                                                |                                                               |
|              | HOLD UP TIME                 | >25 mS at 24V & >16 mS at 28V @ 115/230 VAC, Full Load                                                              | >25 mS at 48V & >16 mS at 56V @ 115/230 VAC, Full Load        |
|              | RISE TIME                    | <100 ms                                                                                                             |                                                               |
| INPUT        | VOLTAGE RANGE                | 90 - 264V AC      127 - 370V DC<br>De-rate output power linearly below 100 VAC from 100% at 100 VAC to 90% at 90VAC |                                                               |
|              | FREQUENCY RANGE              | 50/60 Hz                                                                                                            |                                                               |
|              | POWER FACTOR                 | >0.95 @ Full load over entire input range                                                                           |                                                               |
|              | EFFICIENCY @ 230V AC         | >93.5 %                                                                                                             | >94%                                                          |
|              | AC CURRENT                   | 2.4A @ 115V AC; 1.2A @ 230V AC                                                                                      |                                                               |
|              | INRUSH CURRENT               | <60 Amps; Measured at 264V AC, 25°C Ambient, Cold start                                                             |                                                               |
|              | LEAKAGE CURRENT              | < 1 mA; 264Vac input                                                                                                |                                                               |
| PROTECTION   | OVERLOAD                     | 110% to 140% of rated output current; Hiccup type; Autorecovery                                                     |                                                               |
|              | OVERVOLTAGE                  | 31V DC $\pm 0.5V$ DC                                                                                                | 60V DC $\pm 1V$ DC                                            |
|              | OUTPUT SHORT CIRCUIT         | Latched type; Input AC power to be recycled to recover the power supply                                             |                                                               |
|              | OVER TEMPERATURE             | Hiccup mode when output is shorted; Autorecovery type.                                                              |                                                               |
| FUNCTION     | DC OK SIGNAL                 | Contact closes @ 23.0V (typ.)<br>Contact opens @ 22.5V (typ.)                                                       | Contact closes @ 46.0V (typ.)<br>Contact opens @ 45.0V (typ.) |
|              |                              | Contact Rating : 30Vdc 1A; 60Vdc 0.5A; 125Vac 0.5A; resistive load, min. current 1mA                                |                                                               |
| ENVIRONMENT  | OPERATING TEMP               | -25°C to +70°C; De-rate linearly above 50°C from 100% load at 50°C to 50% load at 70°C                              |                                                               |
|              | STORAGE TEMP                 | -40°C to +85°C                                                                                                      |                                                               |
|              | COOLING                      | Natural convection cooled                                                                                           |                                                               |
|              | HUMIDITY                     | 5 to 95% RH, Non condensing                                                                                         |                                                               |
|              | ALTITUDE                     | 2000m                                                                                                               |                                                               |
|              | VIBRATION                    | Component : 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes                                 |                                                               |
| SAFETY & EMC | DIELECTRIC WITHSTAND VOLTAGE | I/P to Earth : 2500V AC<br>I/P to O/P : 4000V AC<br>O/P to Earth : 1500V AC                                         |                                                               |
|              |                              |                                                                                                                     |                                                               |
| OTHERS       | DIMENSION                    | 60*154*158.55mm (W*H*D)                                                                                             |                                                               |
|              | WEIGHT                       | 1050 gms                                                                                                            |                                                               |
|              | MOUNTING                     | 35 mm DIN rail                                                                                                      |                                                               |

## Terminal connections



## Compliance

| Applicable EMI / EMC Standards    |                             |                                            |
|-----------------------------------|-----------------------------|--------------------------------------------|
| Product Standard                  |                             |                                            |
| Category                          | Reference Standards         | Testing Level                              |
| Conducted Emission                | CISPR11                     | CLASS A                                    |
| Radiated Emission                 | CISPR22                     | CLASS A                                    |
| Electrostatic Discharge           | IEC61000-4-2                | Level 4, Criteria A<br>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 |
|--------------|----------------------------------------------------------------|---------------|
| RPS480-24-CE | 480W, 24V/20A DIN rail mounted Power Supply in Plastic Housing | CE            |
| RPS480-48-CE | 480W, 48V/10A DIN rail mounted Power Supply in Plastic Housing | CE            |