



### Features :

- Supports 90 - 264 VAC / 127 - 370 VDC
- Efficiencies up to 87 %
- Protection against short circuit, overload, overvoltage & over temperature
- Cooling by free air convection
- UL 508 approved (E522848)

### Model Number Legend:

RPS60 -       - CU

1. Output Voltage: 05: 5 V  
 12: 12 V  
 15: 15 V  
 24: 24 V  
 48: 48 V

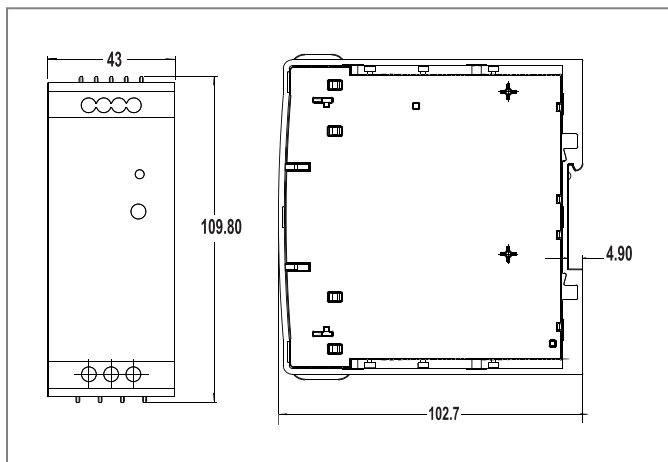
Certification :

### SPECIFICATIONS:

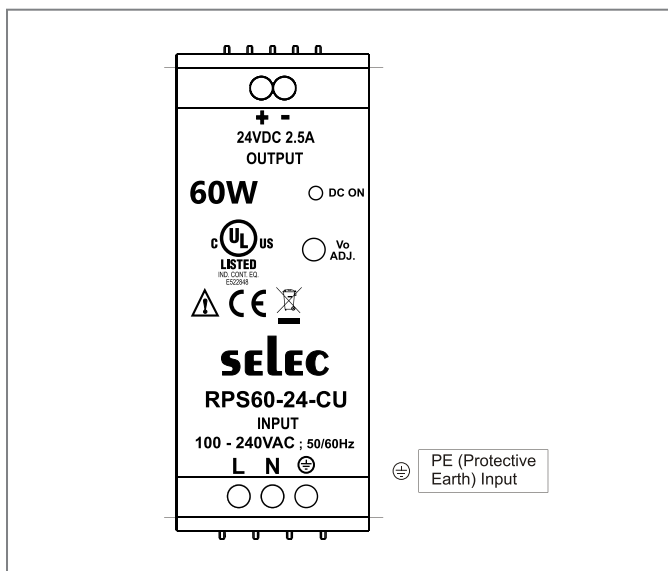
|              |                               | RPS60-05-CU   | RPS60-12-CU    | RPS60-15-CU    | RPS60-24-CU      | RPS60-48-CU    |
|--------------|-------------------------------|---|----------------|----------------|------------------|----------------|
| OUTPUT       | NOMINAL DC VOLTAGE            | 5 V   | 12 V           | 15 V           | 24 V             | 48 V           |
|              | RATED CURRENT                 | 10 A  | 5 A            | 4 A            | 2.5 A            | 1.25 A         |
|              | CURRENT RANGE                 | 0 - 10 A  | 0 - 5 A        | 0 - 4 A        | 0 - 2.5 A        | 0 - 1.25 A     |
|              | RATED POWER                   | 50 W  | 60 W           | 60 W           | 60 W             | 60 W           |
|              | RIPPLE & NOISE (max)          | < 1.5 % of Vout   | < 1 % of Vout  | < 1 % of Vout  | < 1 % of Vout    | < 1 % of Vout  |
|              | VOLTAGE ADJ. RANGE            | 5.0 to 6.0 V  | 12 to 14 V     | 15 to 17.5 V   | 24 to 28 V       | 48 to 56 V     |
|              | VOLTAGE TOLERANCE             | ± 1 %   |                |                |                  |                |
|              | LINE REGULATION               | ± 0.5 %   |                |                |                  |                |
|              | LOAD REGULATION               | ± 1 %   |                |                |                  |                |
|              | TURN ON TIME                  | < 1 sec @ 230 VAC & < 3 sec @ 115 VAC, Full load  |                |                |                  |                |
|              | HOLD UP TIME                  | ≥ 60 ms @ 230 VAC & ≥ 15 ms @ 115 VAC, Full load  |                |                |                  |                |
| RISE TIME    | < 100 ms                      |   |                |                |                  |                |
| INPUT        | VOLTAGE RANGE*                | 90 - 264 VAC / 127 - 370 VDC  |                |                |                  |                |
|              | FREQUENCY RANGE               | 50 / 60 Hz  |                |                |                  |                |
|              | EFFICIENCY @ 230V AC          | Up to 78 %  | Up to 86 %     | Up to 86 %     | Up to 87 %       | Up to 87 %     |
|              | AC CURRENT                    | 1.2 A @ 115 VAC; 0.8 A @ 230 VAC  |                |                |                  |                |
|              | INRUSH CURRENT                | < 48 Amps; Measured at 264 VAC, 25°C Ambient, Cold start  |                |                |                  |                |
|              | LEAKAGE CURRENT               | < 1 mA; 264 VAC input   |                |                |                  |                |
| PROTECTION   | OVERLOAD                      | > 110% of rated output current; Hiccup type, Autorecovery   |                |                |                  |                |
|              | OVERVOLTAGE                   | 6.8 VDC ± 0.5 VDC   | 17 VDC ± 1 VDC | 20 VDC ± 1 VDC | 31.5 VDC ± 1 VDC | 61 VDC ± 2 VDC |
|              | 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   |                |                |                  |                |
| ENVIRONMENT  | OPERATING TEMP                | 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 AC power is recycled thereafter.                   |                |                |                  |                |
|              | STORAGE TEMP                  | - 25°C to + 70°C; De-rate linearly above 50°C from 100 % load at 50°C to 50 % load at 70°C, - 25°C to 0°C startup is guaranteed with specification deviation (Output ripple can be more than 10 % of the output voltage.) |                |                |                  |                |
|              | COOLING                       | - 40°C to + 85°C  |                |                |                  |                |
|              | HUMIDITY                      | Natural convection cooled   |                |                |                  |                |
|              | ALTITUDE                      | 5 to 95 % RH, Non condensing  |                |                |                  |                |
|              | VIBRATION                     | 2000 m  |                |                |                  |                |
| SAFETY & EMC | DIELECTRIC WITH STAND VOLTAGE | Component: 10 ~ 500 Hz, 2 G 10 min. / 1 cycle, period for 60 min. each along X, Y, Z axes   |                |                |                  |                |
|              |                               | I/P to Earth: 2500 VAC<br>I/P to O/P: 4000 VAC<br>O/P to Earth: 1500 VAC  |                |                |                  |                |
| OTHERS       | DIMENSION                     | 43 x 109.8 x 102.7 mm (W x H x D)   |                |                |                  |                |
|              | WEIGHT                        | 285 gms   |                |                |                  |                |
|              | MOUNTING                      | 35 mm DIN rail  |                |                |                  |                |

\* Although power supply will work for the specified DC input voltage range, UL approval is only for the specified AC input voltage range.

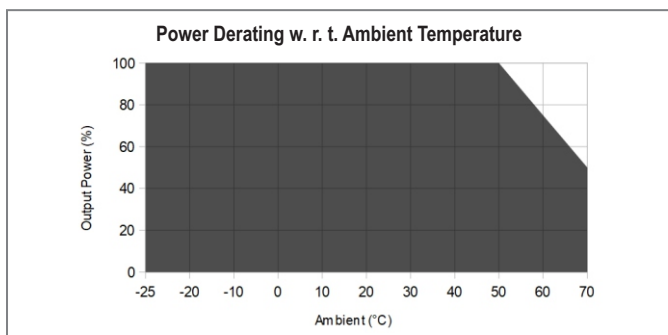
## Dimensions (All are in mm)



## Terminal connections



## Derating curve



## Compliance

| Applicable EMI / EMC Standards    |   |  |
|-----------------------------------|---|--|
| Category                          | Reference Standards                                       | Testing Level                              |
| Conducted Emission                | CISPR11   | CLASS A                                    |
| Radiated Emission                 | CISPR22   | CLASS A                                    |
| Electrostatic Discharge           | IEC 61000-4-2   | Level 4, Criteria A<br>Level 3, Criteria A |
| Radiated Susceptibility           | IEC 61000-4-3   | Level 3, Criteria B                        |
| Electrical Fast Transient / Burst | IEC 61000-4-4   | Level 3, Criteria A                        |
| Surge                             | IEC 61000-4-5   | Level 3, Criteria A                        |
| Conducted Susceptibility          | IEC 61000-4-6   | Level 3, Criteria B                        |
| Power Frequency Magnetic Field    | IEC 61000-4-8   | Level 4, Criteria A                        |
| Voltage Dips & Interruption       | IEC 61000-4-11  | Criteria A & B                             |
| Safety                            | UL 508 approved (E522848)<br>Designed to meet IEC 62368-1 |  |

## Ordering information

| Product Code | Description  | Certification       |
|--------------|--|---------------------|
| RPS60-05-CU  | 50 W, 05 V / 10 A DIN rail mounted Power Supply in Plastic Housing   | CE, RoHS, UL LISTED |
| RPS60-12-CU  | 60 W, 12 V / 5 A DIN rail mounted Power Supply in Plastic Housing    | CE, RoHS, UL LISTED |
| RPS60-15-CU  | 60 W, 15 V / 4 A DIN rail mounted Power Supply in Plastic Housing    | CE, RoHS, UL LISTED |
| RPS60-24-CU  | 60 W, 24 V / 2.5 A DIN rail mounted Power Supply in Plastic Housing  | CE, RoHS, UL LISTED |
| RPS60-48-CU  | 60 W, 48 V / 1.25 A DIN rail mounted Power Supply in Plastic Housing | CE, RoHS, UL LISTED |