



Features :

- Supports 90 - 264 VAC / 127 - 370 VDC
- Efficiencies up to 89 %
- Protection against short circuit, overload, overvoltage & over temperature
- Cooling by free air convection
- UL 508 approved (E522848)

Model Number Legend:

RPS120 - - CU

1. Output Voltage: 12: 12 V
24: 24 V
48: 48 V

Certification :

SPECIFICATIONS:

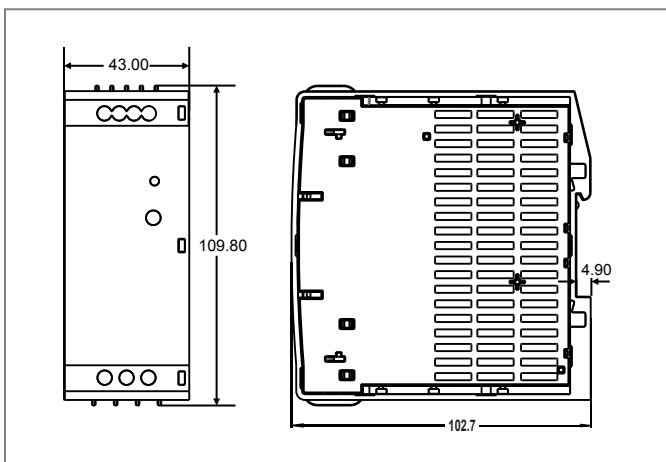
| MODEL | | RPS120-12-CU | RPS120-24-CU | RPS120-48-CU |
|--------------|------------------------------|--|--|-----------------|
| OUTPUT | NOMINAL DC VOLTAGE | 12 V | 24 V | 48 V |
| | RATED CURRENT | 8 A | 5 A | 2.5 A |
| | CURRENT RANGE | 0 - 8 A | 0 - 5 A | 0 - 2.5 A |
| | RATED POWER | 96 W | 120 W | 120 W |
| | RIPPLE & NOISE (max) | < 1 % of Vout | < 1 % of Vout | < 1 % of Vout |
| | VOLTAGE ADJ. RANGE | 12 to 14 V | 24 to 28 V | 48 to 56 V |
| | VOLTAGE TOLERANCE | | ± 1 % | |
| | LINE REGULATION | | ± 1 % | |
| | LOAD REGULATION | | ± 1 % | |
| | TURN ON TIME | | < 1 sec @ 230 VAC & < 3 sec @ 115 VAC, Full load | |
| | HOLD UP TIME | | ≥ 60 ms at 230 VAC & ≥ 15 ms at 115 VAC, Full load | |
| RISE TIME | | < 100 ms | | |
| INPUT | VOLTAGE RANGE * | 90 - 264 VAC / 127 - 370 VDC | | |
| | FREQUENCY RANGE | 50 / 60 Hz | | |
| | EFFICIENCY @ 230 V AC | Up to 89 % | | |
| | AC CURRENT | 2.2 A @ 115 VAC; 1.5 A @ 230 VAC | | |
| | INRUSH CURRENT | < 75 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 | 15.5 - 18.5 VDC | 28.5 - 33.5 VDC | 56.5 - 65.5 VDC |
| | OUTPUT SHORT CIRCUIT | Latched type; Input AC power to be recycled to recover the power supply | | |
| | OVER TEMPERATURE | 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 | | |
| 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, - 25°C to 0°C startup is guaranteed with spec deviation (Output ripple can be more than 10 % of the output voltage.) | | |
| | STORAGE TEMP | - 40°C to + 85°C | | |
| | COOLING | Natural convection cooled | | |
| | HUMIDITY | 5 to 95 % RH, Non condensing | | |
| | ALTITUDE | 2000 m | | |
| | VIBRATION | Component : 10 ~ 500 Hz, 2 G 10 min. / 1 cycle, period for 60 min. each along X, Y, Z axes | | |
| SAFETY & EMC | DIELECTRIC WITHSTAND VOLTAGE | I/P to Earth: 2500 VAC I/P to O/P: 4000 VAC O/P to Earth: 1500 VAC | | |
| RELIABILITY | MTBF | > 220K hrs. as per MIL-HDBK-217F (25°C) | | |
| OTHERS | DIMENSION | 43 x 109.8 x 102.7 mm (W x H x D) | | |
| | WEIGHT | 350 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.

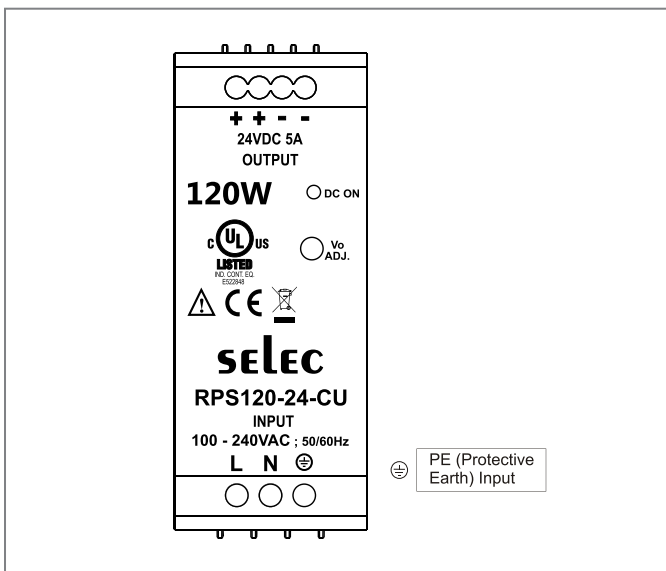
Connectors details

| Description | Type | Torque |
|------------------|---------------------------------------|--------|
| Input connector | GOOSVN : GS007S-7.5 OR Equivalent | 0.5 Nm |
| Output connector | GOOSVN : GS007S-5.08 OR Equivalent | |

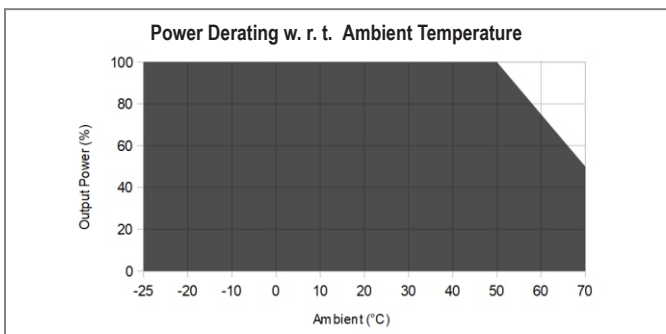
Dimensions (All are in mm)



Terminal connections



Derating curve



Compliance

| Applicable EMI / EMC Standards | | |
|-----------------------------------|---|--|
| Category | Reference Standards | Testing Level |
| Conducted Emission | CISPR32 | CLASS A |
| Radiated Emission | CISPR32 | CLASS A |
| Electrostatic Discharge | IEC 61000-4-2 | Level 4, Criteria A 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) Designed to meet IEC 62368-1 | |

Ordering information

| Product Code | Description | Certification |
|--------------|--|---------------------|
| RPS120-12-CU | 96 W, 12 V / 8 A Din rail mounted Power Supply in Plastic Housing | CE, RoHS, UL LISTED |
| RPS120-24-CU | 120 W, 24 V / 5 A DIN rail mounted Power Supply in Plastic Housing | CE, RoHS, UL LISTED |
| RPS120-48-CU | 120 W, 48 V / 2.5 A DIN rail mounted Power Supply in Plastic Housing | CE, RoHS, UL LISTED |