



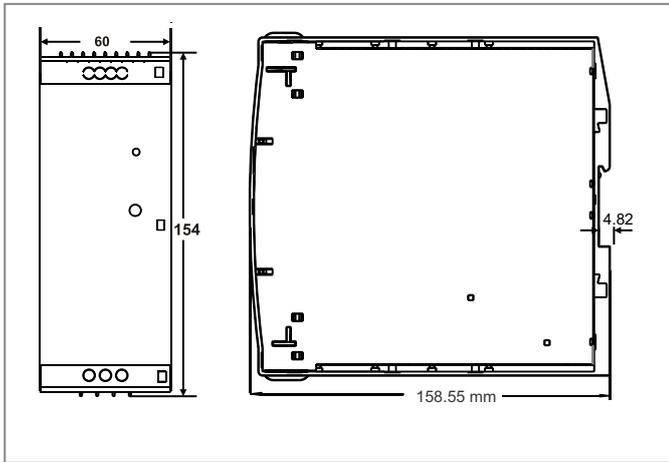
Features :

- Low cost CVCC power supply.
- Efficiency up to 87 %
- Designed to meet UL 508 & IEC 62368-1
- Cooling by Built-in DC FAN

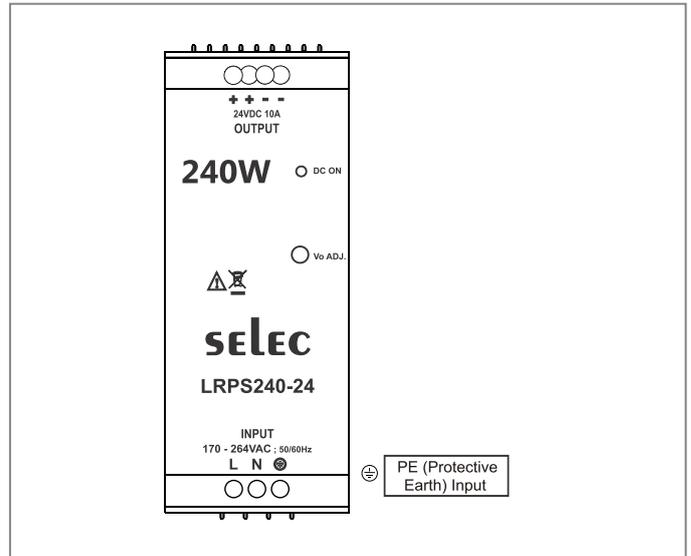
SPECIFICATIONS:

| | | LRPS240-24 | LRPS240-48 |
|--------------|------------------------------|--|---|
| OUTPUT | NOMINAL DC VOLTAGE | 24 VDC | 48 VDC |
| | RATED CURRENT | 10 A | 5 A |
| | CURRENT RANGE | 0 - 10 A | 0 - 5 A |
| | RATED POWER | 240 W | 240 W |
| | RIPPLE & NOISE (max) | < 1 % of Vout | < 1 % of Vout |
| | VOLTAGE ADJ. RANGE | 24 to 28 VDC | 48 to 56 VDC |
| | VOLTAGE TOLERANCE | | ± 1 % |
| | LINE REGULATION | | ± 1 % |
| | LOAD REGULATION | | ± 1 % |
| | TURN ON TIME | < 2 sec; at full load | < 3 sec; at full load |
| | HOLD UP TIME | > 30 msec at 230 VAC, Full Load | > 30 msec at 230 VAC, Full Load |
| RISE TIME | < 100 msec | | |
| INPUT | VOLTAGE RANGE | 170 - 264 VAC / 240 - 370 VDC | |
| | FREQUENCY RANGE | 50 / 60 Hz | |
| | EFFICIENCY @ 230V AC | Up to 87 % | |
| | AC CURRENT | 3.5 A @ 170 VAC; 2.8 A @ 230 VAC; 2.4 A @ 264 VAC | |
| | INRUSH CURRENT | < 60 A; Measured at 264 VAC, 25°C Ambient, Cold start | |
| | LEAKAGE CURRENT | < 300 uA; 264 VAC input | |
| PROTECTION | OVERLOAD | 11 A to 11.5 A of Constant Current type down to 18 VDC output; Hiccup mode for heavy overload; Autorecovery | 5.5 A to 6 A of Constant Current type down to 35 VDC output; Hiccup mode for heavy overload; Autorecovery |
| | OVERVOLTAGE | 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 Hiccup mode when output is shorted; Autorecovery type. | |
| | 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 specification deviation (Output ripple can be more than 10 % of the output voltage) | |
| | STORAGE TEMP | - 40°C to + 85°C | |
| | COOLING | Cooling by Built-in DC Fan | |
| | 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 : 1500 VAC O/P to Earth : 1500 VAC I/P to O/P : 4000 VAC | |
| RELIABILITY | MTBF | > 380K hrs. as per MIL-HDBK-217F (25°C) | |
| OTHERS | DIMENSION | 60 x 154 x 158.55 mm (W x H x D) | |
| | WEIGHT | 680 gms | |
| | MOUNTING | 35 mm DIN rail | |

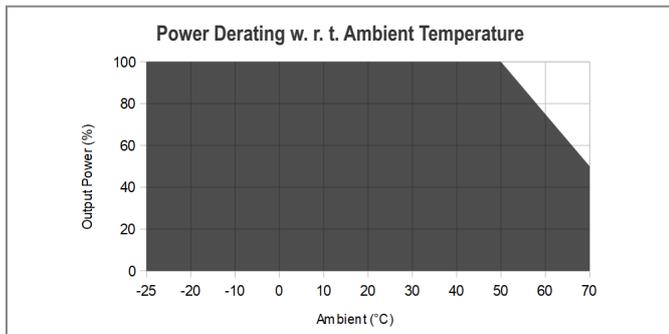
Dimensions (All are in mm)



Terminal connections



Derating curve



Ordering information

| Product Code | Description | Certification |
|--------------|---|---------------|
| LRPS240-24 | 240 W, 24 V / 10 A DIN rail mounted Power Supply in Plastic Housing | NA |
| LRPS240-48 | 240 W, 48 V / 5 A DIN rail mounted Power Supply in Plastic Housing | NA |

Connectors details

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