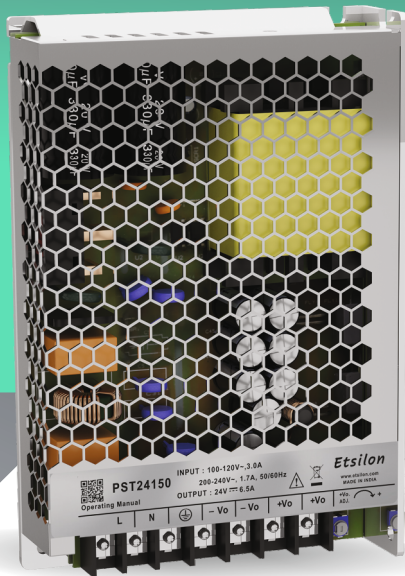




## Table Top Power Supply PST24150

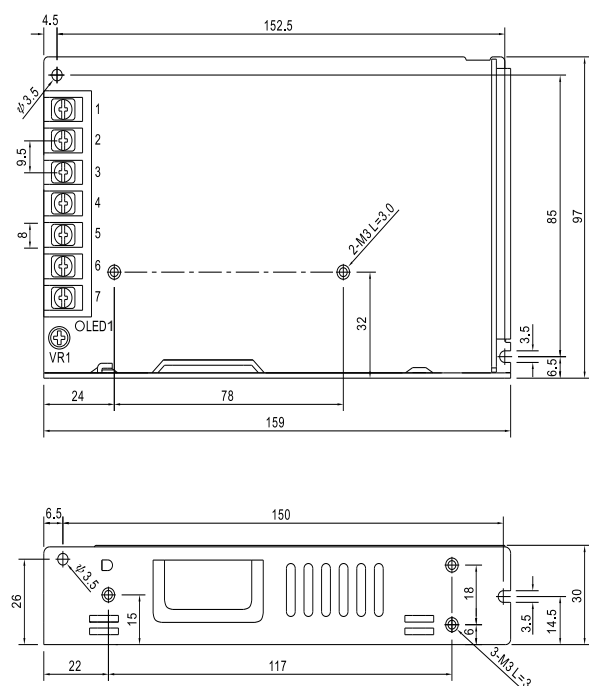
### Applications

- Textile
- Packaging
- Security system
- All industrial machines

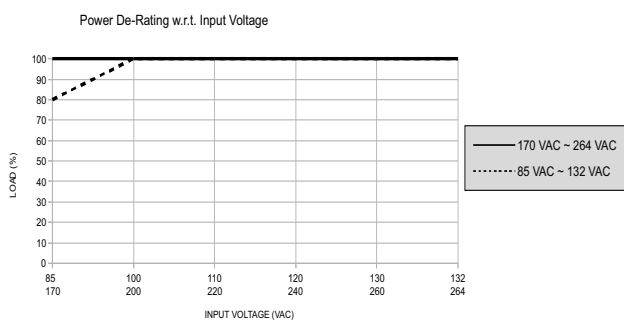
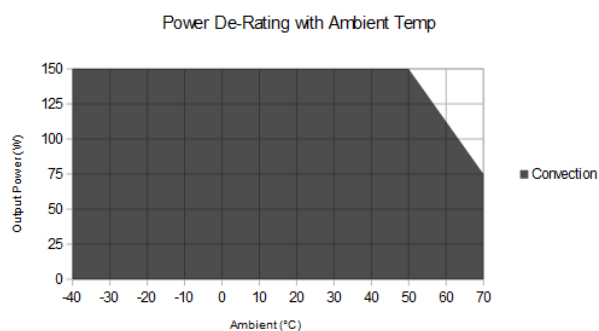
### Features

- AC Input range selectable by switch
- Efficiency up to 89%
- -40 °C to +70 °C operating temperature
- Compact size and 1U low profile
- Protection against short circuit, Over load & Over voltage
- Cooling by free air convection

## Dimensions (All are in mm)



## De-rating curve



## Technical specifications

### Output specifications

|                      |                                                |
|----------------------|------------------------------------------------|
| Nominal DC voltage   | 24V                                            |
| Rated current        | 6.5A                                           |
| Rated power          | 156W                                           |
| Ripple & Noise (max) | <1% of vout                                    |
| Voltage Adj. range   | 24V to 28V                                     |
| Voltage tolerance    | ±1%                                            |
| Line regulation      | ±1%                                            |
| Load regulation      | ±1%                                            |
| Turn on time         | <1 sec @ 230V AC & <3 sec @115V AC, Full load  |
| Hold up time         | ≥60 ms at 230V AC & ≥10 ms @115V AC, Full load |
| Rise time            | <100ms                                         |

### Input specifications

|                           |                                                                            |
|---------------------------|----------------------------------------------------------------------------|
| Voltage range             | 85 - 132V AC / 170 - 264V AC by switch, 240 ~ 370V DC (switch on 230V AC ) |
| Frequency range           | 50 - 60Hz                                                                  |
| Efficiency @230V AC       | Up to 89%                                                                  |
| AC current                | 3A at 115V AC; 1.7A at 230V AC                                             |
| Inrush current            | <60 Amps; Measured at 264V AC, 25 °C Ambient, Cold start                   |
| Leakage current           | <1mA; 264V AC input                                                        |
| No load power consumption | <1.5W; 115V AC input                                                       |

### Protection specifications

|                      |                                                                                        |
|----------------------|----------------------------------------------------------------------------------------|
| Overload             | >110% of rated output current; Hiccup mode; Autorecovery type                          |
| Over voltage         | 28.5 - 33.5V DC Latched type; Input AC power to be recycle to recover the power supply |
| Output short circuit | Hiccup mode when output is shorted; Autorecovery type                                  |

### Environment specifications

|                |                                                                                                                                                                                                                    |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating temp | -40 °C to +70 °C; De-rate linearly above 50 °C from 100% load at 50 °C to 50% load at 70 °C, - 40 °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: 10~500Hz, 2G 10 min. / 1 cycle, Period for 60 min. each along X, Y, Z axes                                                                                                                              |

### SAFETY & EMC specifications

|                               |                                                                      |
|-------------------------------|----------------------------------------------------------------------|
| Dielectric with stand voltage | I/P to earth: 2500V AC, I/P to O/P: 2500V AC, O/P to earth: 4000V AC |
|-------------------------------|----------------------------------------------------------------------|

### Mechanical

|                       |                 |
|-----------------------|-----------------|
| Dimension (L x W x H) | 159 x 97 x 30mm |
| Weight                | <500 gm         |
| Mounting              | Table top       |

## Connectors details

| Ref Des | Pin number | Function    |
|---------|------------|-------------|
| TRL1    | 1          | AC Line     |
|         | 2          | AC Neutral  |
|         | 3          | Earth       |
|         | 4,5        | V1 Negative |
|         | 6, 7       | V1 Positive |

## Compliance

| Applicable EMI / EMC Standards    |                              |                                            |
|-----------------------------------|------------------------------|--------------------------------------------|
| Category                          | Reference standards          | Testing level                              |
| Conducted emission                | CISPR32                      | CLASS B                                    |
| Radiated emission                 | CISPR32                      | 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                            | Designed to meet IEC 62368-1 |                                            |

## Ordering information

| Product code | Description                                           |
|--------------|-------------------------------------------------------|
| PST24150     | 156W, 24V / 6.5A Table top power supply in metal body |