

## SPECIFICATION

|   |   |
|---|---|
| Description   | 220-240V TRIAC Dimming LED Driver, Constant Voltage Driver                        |
| Electrical Characteristics                                  | Ta = 25°C, 220-240Vrms input, standard reference load; unless otherwise specified |
| Class II, IP20, thermally protected 110, independent driver |   |

|                     |  |           |
|---------------------|--|-----------|
| <b>Product Name</b> |  | DIM24-100 |
|---------------------|--|-----------|

**Input Parameters**

|                           |           |                       |
|---------------------------|-----------|-----------------------|
| Rated Input Voltage       | Uin       | 220-240VAC            |
| Input Current (Full load) | Iin       | 0.60A                 |
| Input Frequency           | fin       | 50/60Hz               |
| Maximum Input Power       | Pin       | 115W                  |
| Power Factor (Full load)  | $\lambda$ | $\geq 0.95$           |
| THD(Full load)            |           | $\leq 15\%$           |
| No-load power             |           | $\leq 1.0W$           |
| Efficiency (Full load)    | $\eta$    | $\geq 91\%$           |
| Inrush current(Max)       |           | 45A&500us(Cold start) |
| Turn on time              |           | $\leq 500ms$          |

**Output Parameters**

|                                |      |               |
|--------------------------------|------|---------------|
| Output Voltage                 | Vout | 24V $\pm 5\%$ |
| Output Current                 | Iout | 1.4-4.2A      |
| Output Power (Full load)       | Pout | 100W          |
| Operating Frequency(Full load) | Fout | 90-120KHz     |
| PWM Frequency                  |      | 300Hz         |
| Dimming Range                  |      | 1-100%        |
| Ripple & Noise (Max)           |      | 300mVp-p      |
| Load Regulation                |      | $\pm 3\%$     |
| Line Regulation                |      | $\pm 3\%$     |

**Ambient**

|                               |    |                |
|-------------------------------|----|----------------|
| Storage Temperature           | ts | -20 ... + 70°C |
| Operating Ambient Temperature | ta | -20 ... + 45°C |
| Case Temperature at tc Point  | tc | 80°C           |
| Relative humidity             |    | 5 ... 85%      |

**Protection**

|               |  |                                   |
|---------------|--|-----------------------------------|
| No Load       |  | Auto-recovery if fault is removed |
| Over Load     |  | Auto-recovery if fault is removed |
| Short Circuit |  | Auto-recovery if fault is removed |

**System Parameters**

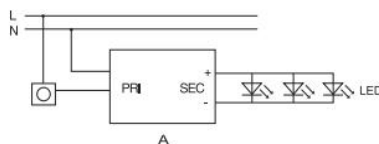
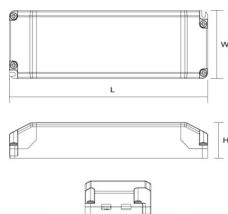
|                   |  |                               |
|-------------------|--|-------------------------------|
| Withstand voltage |  | 3.75KVAC, Ileakage<5.0mA, 60S |
| Expected Life     |  | 50,000Hours                   |

**Compliances and approvals**

|           |  |                      |
|-----------|--|----------------------|
| Safety    |  | EN 61347-2-13        |
| RFI       |  | EN 55015             |
| Harmonics |  | EN 61000-3-2 Class C |
| Immunity  |  | EN 61547             |

**Note**

- All parameters NOT specially mentioned are measured at 240VAC input, rated load and 25 of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.
- Expected Life:tc=80°C, 0.2%/1000h failure rate

**Physical Parameter**

Dimensions(LxWxH): 210x67x34mm

Housing Material:PC Plastic

Captured Terminal Screw for 0.75~2.5mm<sup>2</sup>