RV24W12 RV25W24 RV25W48


## Constant Voltage Driver

**Model : RV24W12**
**RV25W24**
**RV25W48**

| Model | Input Current | Input Power | Output Power Range | PF | Efficiency | Output Voltage | Output Current | No load Voltage |
|---|---|---|---|---|---|---|---|---|
| RV24W12 | ≤0.16A | ≤31W | 1.2-24W | ≥0.95 | 85% | 12V | 0.1-2A | 11.5~13.5V |
| RV25W24 | ≤0.16A | ≤31W | 1.2-25W | ≥0.95 | 86% | 24V | 0.05-1.04A | 23~25V |
| RV25W48 | ≤0.16A | ≤31W | 1.2-25W | ≥0.95 | 86% | 48V | 0.025-0.52A | 47.5~49.5V |

***Test result @230V, 50 Hz，Full Load**

## 1. Parameters

| Category | Item | Technical Norm |
|---|---|---|
| Features | Output Type | Constant Voltage |
| | IP Grade | IP20 |
| | Insulation Class | Class Ⅱ |
| Input | Rated Input Voltage | 220-240VAC |
| | Range of Input Voltage | 198-264VAC or 220-280VDC |
| | Frequency | 50/60Hz |
| | Input Current | ≤0.16A |
| | Input Power | ≤ 31W |
| | Power Factor | ≥0.95@230V,50HZ,Full Load |
| | THD | ≤15%@230V,50HZ,Full Load |
| | No-load Power Consumption | ≤0.5W |
| Output | Voltage Accuracy | ±5% |
| | Max. Output Power | 25W |
| | Started Delay Time | ≤0.5S (230VAC，full load) |
| | Voltage Ripple | ±2% (< 120 Hz) |
| | PstLM | ≤1 |
| | SVM | ≤0.4 |
| Protection | Short Circuit Protection | Auto Recovery |
| | Overload Protection | Auto Recovery |
| | No-load Protection | Auto Recovery |
| | Insulation voltage | I/P to O/P , 3KVac/1min,I/P to PE 1.5Kac/1min |
| | Insulation resistance | >100M ohm @ 500VDC |
| | Leakage current | I/P to O/P < 250μA |
| Environment | Ta/Operation Temperature | -20….+50℃ |
| | Ts/Storage Temperature | -40….+85℃ |
| | Tc/Enclosure Temperature | 90℃ |

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| | | |
|---|---|---|
| | Humidity | 10%....90%RH |
| | Atmosphere | 86-108KPa |
| Construction | Connection Method | Push-in Terminal |
| | Installation | Build-in |
| | PRI Wire preparation | 0.75-1.5□ |
| | SEC Wire preparation | 0.5-1.5□ |
| | Dimension | Φ55X25mm (R*H) |
| Standards | Certification | CE |
| | Safety Standards | EN61347-2-13:2014/A1:2017<br>EN62493:2015,EN613471:2015/A1:2021,<br>AS61347.2.13:2018,<br>AS/NZS61347.1:2016 Inc A1 |
| | EMC Standards | EN IEC 55015:2019<br>EN IEC 55015:2019/A11:2020<br>EN IEC 61000-3-2:2019<br>EN 61000-3-3:2013/A1:2019<br>EN61547:2009 |
| | Performance | EN62384 |
| | Surge | L-N/1KV |
| | RoHS | complied to 2011/65/EU |
| Others | Life Time | 50000h Ta /Tc |
| | Warranty | 5years , F.R. < 10000ppm |
| | Noise | ≤ 24dB<br>@Background noise ≤18dB， Interval≥15cm |

Remark

1. All Parameters, if not specified, are measured at 230VAC/50Hz and 25℃ ambient temperature.
2. LED Driver is a component of the luminaires ,Luminaires and wire layout will affect the EMC, please check the EMC with end products again.

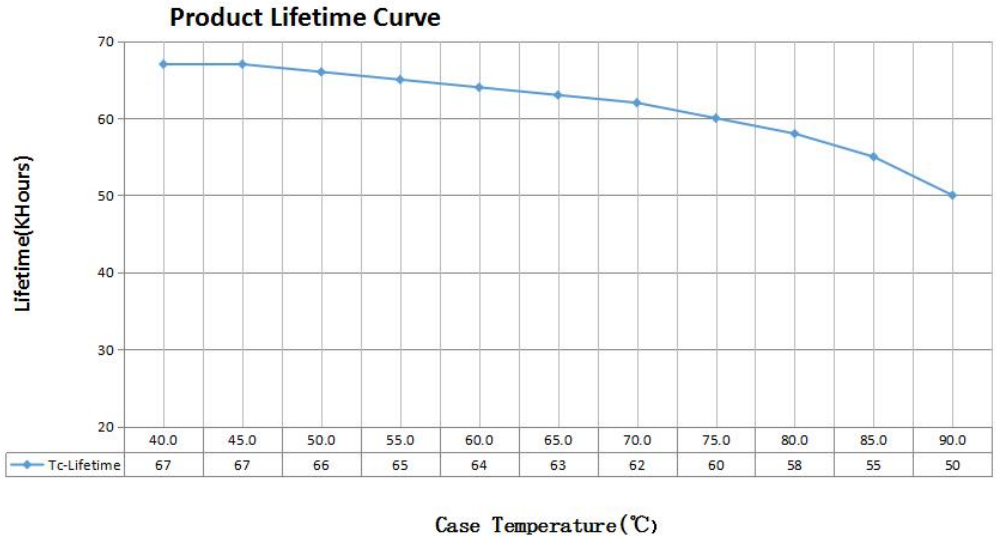
## 2. Connected quantities of different current Breaker

| TYPE | Connected quantities of different current Breaker | | | | | | Input Voltage | Inrush Current | Time |
|---|---|---|---|---|---|---|---|---|---|
| | current（A） | 10 | 13 | 16 | 20 | 25 | | | |
| | Installation wire diameter | 1.5mm² | 2.5mm² | 2.5mm² | 4mm² | 4mm² | | | |
| TYPE B | | 30 | 39 | 48 | 60 | 75 | @230VAC | 20 | 350us |
| TYPE C | | 48 | 62 | 77 | 96 | 120 | | | |
| TYPE D | | 77 | 100 | 123 | 154 | 192 | | | |

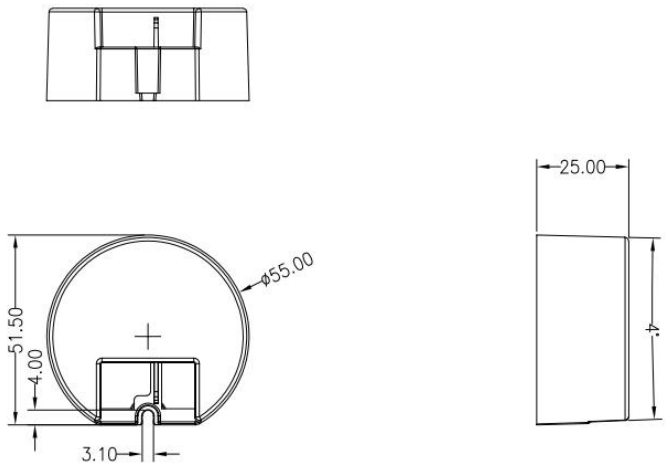
## 3. Label



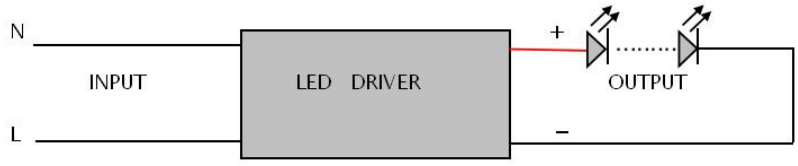

## 4. Lifetime curve




## 5. Dimension （Unit：mm）



## 6. Wiring Diagram




## 7. Packing information

| packing way | Carton L*W*H(mm) | Pcs/Carton | Net weight/ Pcs(kg) | Net weight/ Carton(kg) | Gross weight / Carton(kg) |
|---|---|---|---|---|---|
| Without white box | 410*270*160 | 120 | 0.078 | 9.36 | 9.92 |

## 8. Wiring instructions

• All connections must be kept as short as possible to ensure good EMI behaviour

• Mains leads should be kept apart from LED Driver and other leads (ideally 5 – 10 cm distance)

• Advice the maximum length of output wires is 3 m

• Secondary switching is not permitted（Except for constant voltage）

• Incorrect wiring can damage LED modules.

• The wiring must be protected against short circuits to earth (sharp edged metals parts, metal cable clips, louver, etc.)

## 9. REVISION HISTORY

| DATE | VER | REMARK |
|---|---|---|
| 2023-6-15 | V1.0 | Initial release. |
| 2023-08-24 | V1.1 | CE |
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