



General

|                  |                         |
|------------------|-------------------------|
| Product Type     | Constant Voltage Driver |
| Length (mm)      | 273                     |
| Width (mm)       | 57                      |
| Height (mm)      | 37                      |
| Housing Color    | White                   |
| Housing Material | Metal                   |
| Mounting         | Surface mounted         |
| Weight (g)       | 750                     |

Electronics

|                                |                |
|--------------------------------|----------------|
| Input Domain                   | AC             |
| Input Voltage                  | 100 ~ 240V AC  |
| Output Voltage                 | 12V DC         |
| Output Current (mA) max/output | 3125           |
| Output Current Max. (A)        | 12.5           |
| Output Power Range (W)         | 0~150          |
| Power Factor at Full Load      | +0.95 @ 230VAC |
| Power Supply                   | Internal       |
| LED Outputs                    | 4              |
| Input Frequency                | 50 ~ 60Hz      |

Lighting

|             |      |
|-------------|------|
| Color Range | RGBW |
|-------------|------|

Control

|                    |        |
|--------------------|--------|
| Output Signal      | PWM-CV |
| Control            | DMX    |
| RDM Support        | Yes    |
| Dimming Range      | 0~100% |
| Number of Channels | 4      |

Environmental

|                       |              |
|-----------------------|--------------|
| Storage Temperature   | -40 ~ +80 °C |
| Operating Temperature | -30 ~ +60 °C |
| Ingress Protection    | IP20         |

CE IP20

Disclaimer

Due to the technical evolution and improvement of our products, the data provided in this document may be updated on a regular basis, and as such, confirmation of this information is strongly recommended prior to the order process. OneEightyOne is not responsible for any discrepancies in this document following changes in our products. We reserve the right to make technical changes to our products and to change information, at its sole discretion, without notice.

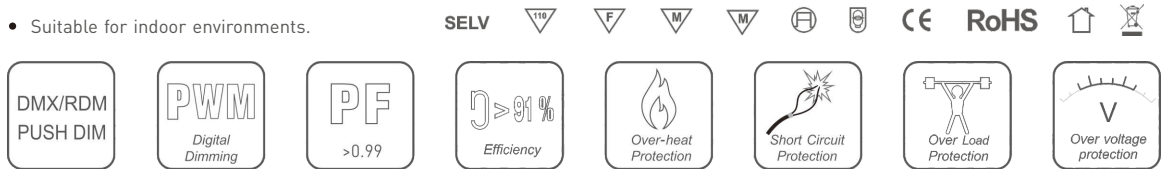
## LED Intelligent Driver

150W 3.12A×4CH 12Vdc

- Dimming interface: DMX512/RDM, Push Dim.
- With the RDM remote device management protocol.
- Supports remote management of reading or writing DMX address.
- 4CH isolated PWM output, control dimming/CT/RGB/RGBW lamps.
- Dimming range: 0~100%, LED start at 0.1% possible.
- Power factor > 0.99, Efficiency > 91%.
- Short circuit / Over-heat / Over load / Over voltage protection.
- Compliant with Safety Extra Low Voltage standard.
- Suitable for indoor environments.



RDM → Dimmable:  
0.1%~100%



## Main Characteristics

|                           |                                                   |
|---------------------------|---------------------------------------------------|
| Dimming Interface:        | DMX512/RDM, Push Dim                              |
| Input Voltage Range:      | 100-240Vac ±10%                                   |
| Frequency:                | 50/60Hz                                           |
| Input Current:            | 115Vac ≤ 1.6A, 230Vac ≤ 0.8A                      |
| Power Factor:             | PF > 0.99/115Vac, PF > 0.95/230Vac, at full load  |
| THD:                      | < 5% at 115Vac, < 8% at 230Vac, at full load      |
| Efficiency:               | > 91%                                             |
| Inrush Current(typ.):     | Cold start 60A at 230Vac                          |
| Control Surge Capability: | L-N: 1kV, L/N-Ground: 2kV                         |
| Leakage Current:          | I/P-O/P: < 0.5mA/230Vac, I/P-GND: < 0.75mA/230Vac |
| Output Current:           | 3.12A×4CH Max. 12.5A                              |
| Output Voltage:           | 12Vdc                                             |

|                            |                                                                       |
|----------------------------|-----------------------------------------------------------------------|
| Output Voltage Range:      | 12Vdc ±0.5Vdc                                                         |
| Ripple & Noise:            | ≤ 200mV                                                               |
| Output Power:              | Max. 150W                                                             |
| Output Power Range:        | 1~150W                                                                |
| Overload Power Limitation: | ≥ 102%~125%                                                           |
| Dimming Range:             | 0~100%, LED start at 0.1% possible.                                   |
| PWM Frequency:             | 2KHz~4KHz                                                             |
| Working Temperature:.      | tc: 85°C ta: -30°C ~ 60°C                                             |
| Working Humidity:          | 20 ~ 95%RH, non-condensing                                            |
| Storage Temp., Humidity:   | -40 ~ 80°C, 10~95%RH                                                  |
| Temp. Coefficient:         | ±0.03%/°C(0-50°C)                                                     |
| Vibration:                 | 10~500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes |

## Protection

|                           |                                                                                                   |
|---------------------------|---------------------------------------------------------------------------------------------------|
| Over Temp. Protection:    | Shut down the output when PCB temp. ≥ 110°C, auto recovers when temp. back to normal.             |
| Over Voltage Protection:  | Non-load Voltage ≥ 13~18V, re-power on to recover after fault condition is removed.               |
| Over Load Protection:     | Current Load ≥ 102%~125%, recovers automatically after fault condition is removed.                |
| Short Circuit Protection: | Shut down automatically if short circuit occurs, auto recovers after faulty condition is removed. |

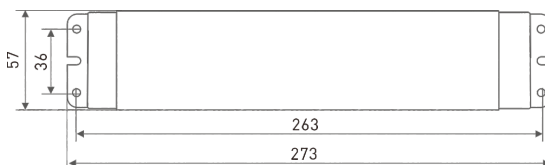
## Safety &amp; EMC

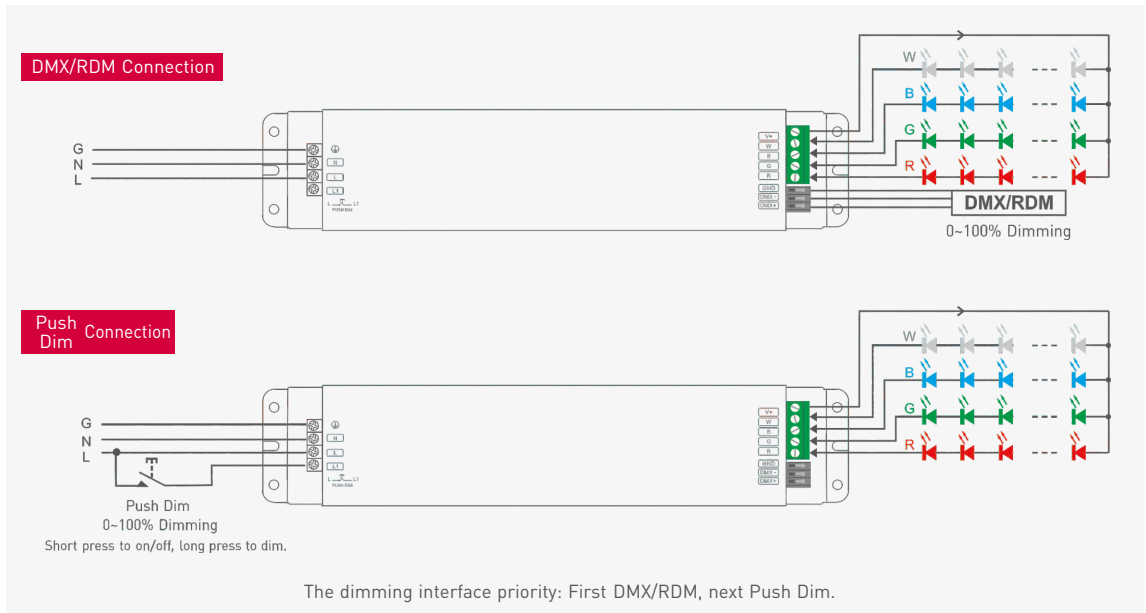
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|-----------------------|--------------------------------------------|
| Withstand Voltage:    | I/P-O/P: 3750Vac I/P-GND: 1800Vac          |
| Isolation Resistance: | I/P-O/P: 100MΩ/500VDC/25°C/70%RH           |
| Safety Standards:     | IEC/EN61347-1, IEC/EN61347-2-13            |
| EMC Emission:         | EN55015, EN61000-3-2 Class C, IEC61000-3-3 |
| EMC Immunity:         | EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547    |

## Others

|               |                    |
|---------------|--------------------|
| Dimension:    | 273×57×37mm(L×W×H) |
| Packing:      | 285×63×43mm(L×W×H) |
| Weight(G.W.): | 790g±10g           |

## Dimensions





## Push Dimming



Reset Switch

- On/off control: Short press.
- Stepless dimming: Long press.
- With every other long press, the light level goes to the opposite direction.
- Dimming memory: Brightness will be the same as previously adjusted when turning off and on again.

## How to Use the Dip Switch:

### RDM Mode:

The dip switch 1-9 are OFF.

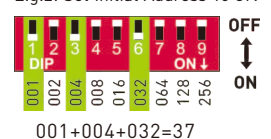


### DMX Address Setting:

E.g.1: Set Initial Address To 32.



E.g.2: Set Initial Address To 37.



DMX address value = the total value of (1-9),  
To get the place value when in "ON" position,