



General

Product Type	Constant Voltage Driver
Length (mm)	178
Width (mm)	44
Height (mm)	30
Housing Color	White
Housing Material	Plastic
Mounting	Surface mounted
Weight (g)	190
Wire Strip Length	5mm
Wire Type	2.5mm2

Electronics

Input Domain	AC
Input Voltage	100 ~ 240V AC
Output Voltage	24V DC
Output Current (mA) max/output	1500
Output Current Max. (A)	1.5
Output Power Range (W)	1~36
Power Supply	Internal
LED Outputs	1
Input Frequency	50 ~ 60Hz
Inrush Current	40A @ 230VAC

Lighting

Color Range	Single Color
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Control

Output Signal	PWM-CV
Control	DMX
RDM Support	Yes
Dimming Range	0~100%
Dimming Curve	Linear
Driver Configuration	Dip Switches
Number of Channels	1

Protection

Reverse Polarity	Yes
LED Output Short	Yes
Overload	Yes
Restart after Protection	Yes
Protection Class	II

Environmental

Operating Temperature	-30 ~ +55 °C
Ingress Protection	IP20

CE

RoHS

COMPLIANT

IP20

2^{year}
warranty

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 Dimming Driver

0~36W 1.5A 24Vdc

- Dimming interface: DMX512/RDM, Push DIM.
- With the RDM remote device management protocol.
- Supports DMX512 signal bi-directional communication.
- PWM digital dimming, no alter LED color rendering index.
- Dimming range: 0~100%, LED start at 0.1% possible.
- Efficiency > 85%.
- Short circuit / Over-heat / Over load protection.
- Class 2 power supply. Full protective plastic housing.
- Compliant with Safety Extra Low Voltage standard.
- Suitable for indoor environments.



SELV



Main Characteristics

Dimming Interface:	DMX512/RDM, Push Dim
Input Voltage Range:	100-240Vac $\pm 10\%$
Frequency:	50/60Hz
Input Current:	115Vac $\leq 0.75A$, 230Vac $\leq 0.4A$
Efficiency:	$\geq 85\%$
Inrush Current(typ.):	Cold start 60A at 230Vac
Control Surge Capability:	L-N: 1kV
Leakage Current:	$< 0.5mA/230Vac$
Output Current:	Max. 1.5A
Output Voltage:	24Vdc
Output Voltage Range:	24Vdc $\pm 0.5Vdc$

Ripple & Noise:	$\leq 200mV$
Output Power:	Max. 36W
Output Power Range:	1~36W
Overload Power Limitation:	$\geq 102\% \sim 125\%$
Dimming Range:	0~100%, LED start at 0.1% possible.
Working Temperature.:	tc: 70°C ta: -30°C ~ 55°C
Working Humidity:	20 ~ 95%RH, non-condensing
Storage Temp., Humidity:	-40 ~ 80°C, 10~95%RH
Temp. Coefficient:	$\pm 0.03\%/^{\circ}C(0-50^{\circ}C)$
Vibration:	10~500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes

Protection

Over-heat Protection:	Shut down the output when PCB temp. $\geq 110^{\circ}C$, auto recovers when temp. back to normal.
Over Load Protection:	Shut down the output when Current Load $\geq 102\% \sim 125\%$, auto recovers after faulty condition is removed.
Short Circuit Protection:	Shut down automatically if short circuit occurs, auto recovers after faulty condition is removed.

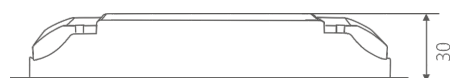
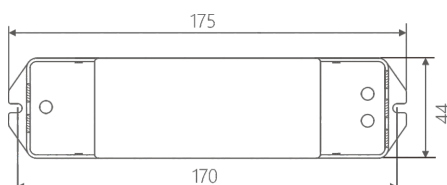
Safety & EMC

Withstand Voltage:	I/P-O/P: 3750Vac
Isolation Resistance:	I/P-O/P: 100M Ω /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

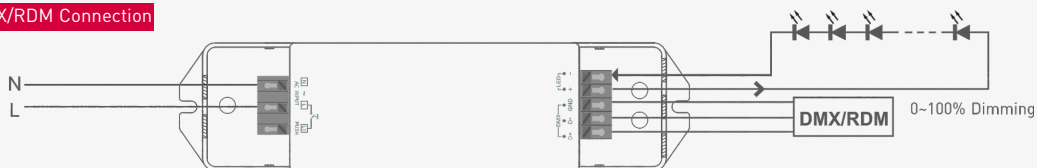
Others

Dimension:	175x44x30mm(LxWxH)
Packing:	178x48x33mm(LxWxH)
Weight[G.W.]:	190g $\pm$ 10g

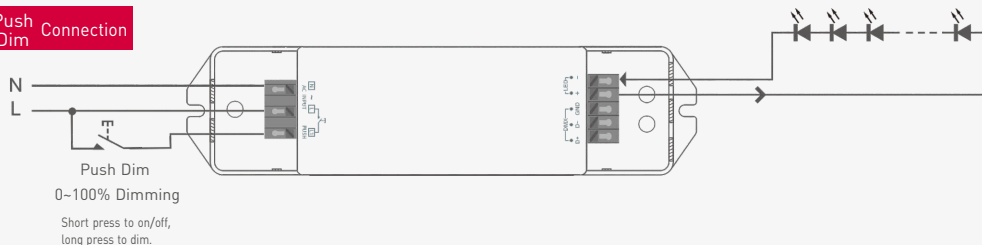
Dimensions



DMX/RDM Connection



Push Dim Connection



The dimming interface priority: First DMX/RDM, next Push Dim.

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.

RDM Mode: The dip switch 1-9 are OFF.

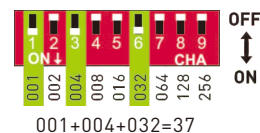


DMX Address Setting:

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,