



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
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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.

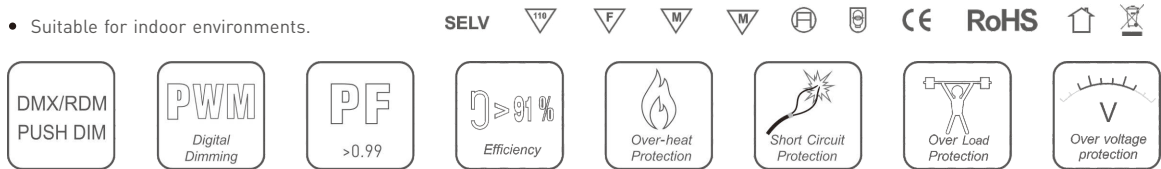
LED Intelligent Driver

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.

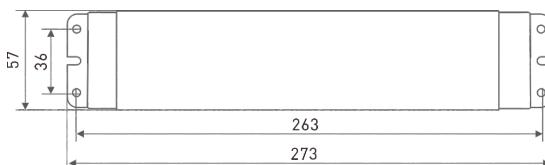
Safety & EMC

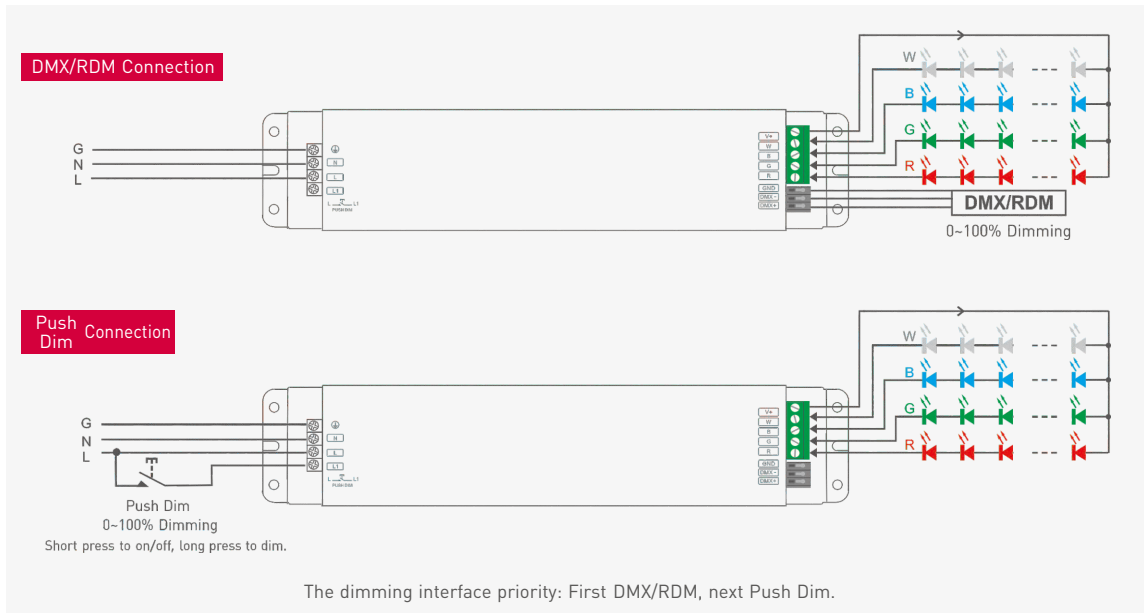
Withstand Voltage:	I/P-O/P: 3750Vac I/P-GND: 1800Vac
Isolation Resistance:	I/P-O/P: 100MΩ/500VDC/25°C/70%RH
Safety Standards:	IEC/EN61347-1, IEC/EN61347-2-13
EMC Emission:	EN55015, EN61000-3-2 Class C, IEC61000-3-3
EMC Immunity:	EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547

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.

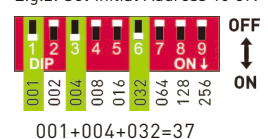


DMX Address Setting:

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,