## LED Dimming Driver

- 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: $0 \sim 100 \%$, LED start at $0.1 \%$ possible.
- Multiple current, wide voltage, compatible with a variety of LED lights.
- Power factor > 0.99, Efficiency > 83\%
- 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

DMX/RDM
PUSH DIM

## Main Characteristics

Dimming Interface: Input Voltage Range: Frequency: Input Current: Power Factor: THD:

Efficiency: Inrush Current(typ.): Leakage Current

Output Voltage Range:
Output Power Range:
Output Current :
Output Voltage :
Output Power :

## Protection

Over-heat Protection:

Over Load Protection: auto recovers when temp. back to normal.
When O/P voltage exceed its range, O/P current declines, auto recovers when the load is reduced.

Short Circuit Protection: Shut down automatically if short circuit occurs, auto recovers after faulty condition is removed.

DMX512/RDM, Push DIM
$100-240 \mathrm{Vac} \pm 10 \%$
$50 / 60 \mathrm{~Hz}$
$115 \mathrm{Vac} \leqslant 0.18 \mathrm{~A}, 230 \mathrm{Vac} \leqslant 0.10 \mathrm{~A}$
$\mathrm{PF}>0.99 / 115 \mathrm{Vac}, \mathrm{PF}>0.95 / 230 \mathrm{Vac}$, at full load $\leqslant 12 \%$ at $115 \mathrm{Vac}, \leqslant 15 \%$ at 230 Vac (full load) $\geqslant 83 \%$

Cold start 10A at 230Vac
$<0.5 \mathrm{~mA} / 230 \mathrm{Vac}$
$3-54 \mathrm{Vdc}$
0.3W~15W

| 100 mA | 120 mA | 150 mA | 200 mA | 250 mA | 300 mA | 350 mA | 400 mA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $3-54 \mathrm{~V}$ | $3-54 \mathrm{~V}$ | $3-54 \mathrm{~V}$ | $3-54 \mathrm{~V}$ | $3-54 \mathrm{~V}$ | $3-50 \mathrm{~V}$ | $3-42 \mathrm{~V}$ | $3-36 \mathrm{~V}$ |
| $0.3-5.4 \mathrm{~W}$ | $0.4-6.5 \mathrm{~W}$ | $0.5-8.1 \mathrm{~W}$ | $0.6-11 \mathrm{~W}$ | $0.8-13.5 \mathrm{~W}$ | $0.9-15 \mathrm{~W}$ | $1.1-14.7 \mathrm{~W}$ | $1.2-15 \mathrm{~W}$ |

$\pm 3 \%$
58 Vdc
$0 \sim 100 \%$, LED start at $0.1 \%$ possible.
tc: $75^{\circ} \mathrm{C}$ ta: $-30^{\circ} \mathrm{C} \sim 55^{\circ} \mathrm{C}$
$20 \sim 95 \%$ RH, non-condensing
$-40 \sim 80^{\circ} \mathrm{C}, 10 \sim 95 \% \mathrm{RH}$
$\pm 0.03 \% /{ }^{\circ} \mathrm{C}\left(0-50^{\circ} \mathrm{C}\right)$
$10 \sim 500 \mathrm{~Hz}, 2 \mathrm{G} 12 \mathrm{~min} . / 1$ cycle, period for 72 min . each along $X, Y, Z$ axes

## Safety \& EMC

Withstand Voltage: I/P-0/P: 3750Vac
Isolation Resistance: I/P-0/P: $100 \mathrm{M} \Omega / 500 \mathrm{VDC} / 25^{\circ} \mathrm{C} / 70 \% \mathrm{RH}$
Safety Standards:
EMC Emission:
EMC Immunity:

IEC/EN61347-1, IEC/EN61347-2-13
EN55015, EN61000-3-2 Class C, IEC61000-3-3
EN61000-4-2,3,4,5,6,8,11, EN61547

## Others

Dimension:
$175 \times 44 \times 30 \mathrm{~mm}(\mathrm{~L} \times \mathrm{W} \times \mathrm{H})$
Packing: $\quad 178 \times 48 \times 33 \mathrm{~mm}(\mathrm{~L} \times \mathrm{W} \times \mathrm{H})$
Weight(G.W.): $\quad 160 \mathrm{~g} \pm 10 \mathrm{~g}$

## 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.

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,

## LED Current Selection

Quick options: DIP switch for 8 optional currents' quick selection(see the table below).



* After current setting by DIP switch, power off and then power on to make the new current effective.
* E.g. LED $3.2 \mathrm{~V} / \mathrm{pcs}: 3-54 \mathrm{~V}$ can power 1-16pcs LEDs in series, $3-36 \mathrm{~V}$ can power 1-11pcs LEDs, the max quantity of LEDs in series will be subject to the actual voltage of LED

Advanced options: Dial DIP switch down $\boldsymbol{\downarrow} \boldsymbol{\downarrow} \boldsymbol{\downarrow}$, connect ISET port with resistors of different values to set up any current from 100 mA to 400 mA (specific resistor values refer to the table).


Connect to resistor

