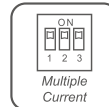**LTSYS**

LED Intelligent Dimming Driver

0.54-25W 180-700mA 3-54V

- 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.
- Multiple current, wide voltage, compatible with a variety of LED lights.
- Power factor > 0.99, Efficiency > 85%
- Short circuit / Over-temperature / Over load protection.
- Class 2 power supply. Full protective plastic housing.
- Compliant with Safety Extra Low Voltage standard.
- Suitable for indoor environments.

SELV   110   F   M   M   CE   RoHS

DMX/RDM PUSH DIM	PWM Digital Dimming	PFC >0.99	Over-heat Protection	Short Circuit Protection	ON 1 2 3 Multiple Current	3V-54V Wide Voltage

Main Characteristics

Dimming Interface:	DMX512/RDM, Push DIM	Operating Voltage:	3-54V DC
Dimming Range:	0~100%, LED start at 0.1% possible.	Output Power Range:	0.54W~25W
Input Voltage Range:	100-240V AC ±10%	Current Accuracy:	±3%
Input Current:	115Vac≤0.28A, 230Vac≤0.15A	No Load Output Voltage :	0V DC
Power Factor:	PF>0.99/115V AC , PF>0.95/230V AC, at full load	Working Temperature.:	-30 ~ +55°C
Frequency:	50/60Hz	Working Humidity:	20 ~ 95%RH, non-condensing
Efficiency:	≥85%	Storage Temp., Humidity:	-40 ~ +80°C, 10~95%RH
Inrush Current(typ.):	Cold start 10A at 230V AC (twidth=75µs measured at 50% Ipeak)	Temp. Coefficient:	±0.03%/°C(0-50°C)
Leakage Current:	<0.5mA/230V AC	Vibration:	10~500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes

Output Current:	180mA	250mA	350mA	400mA	500mA	550mA	600mA	700mA
Output Voltage:	3-54V	3-54V	3-54V	3-54V	3-50V	3-36V	3-36V	3-36V
Output Power:	0.5W-9.7W	0.8W-13.5W	1.1W-18.9W	1.2W-21.6W	1.5W-25W	1.7-19.8W	1.8-21.6W	2.1-25.2W

Protection

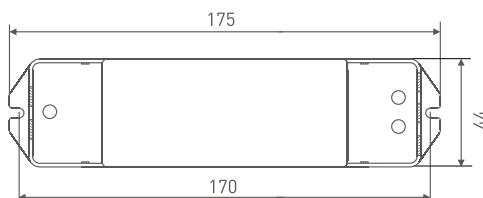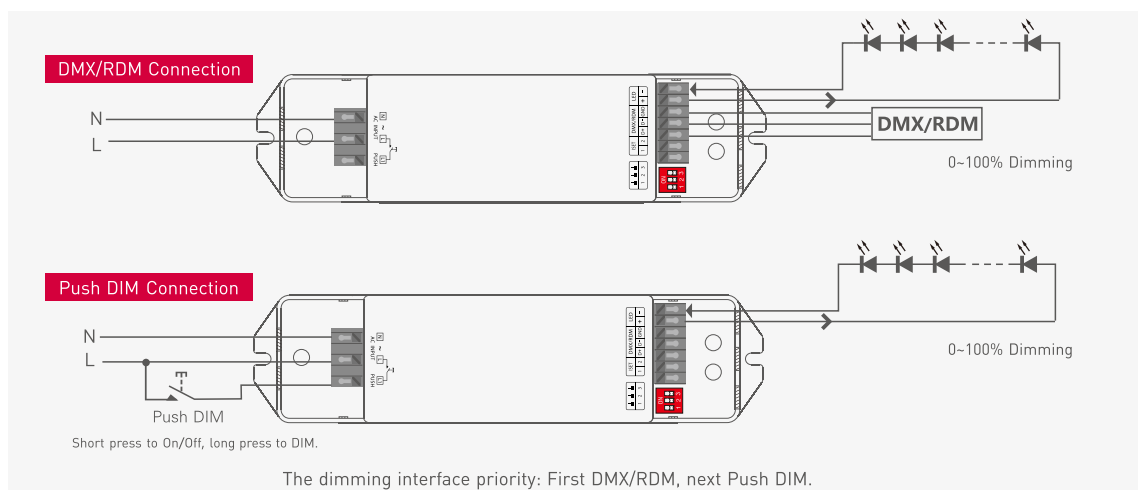Short Circuit / Over Temperature / Over Load: Auto recovery

Others

Dimension:	175×44×30mm(L×W×H)
Packing:	178×48×33mm(L×W×H)
Weight(N.W.):	160g±10g

Safety & EMC

Withstand Voltage:	I/P-O/P: 3750VAC;
Isolation Resistance:	I/P-O/P: 100MΩ/500VDC/25°C/70%RH
Safety Specification:	IEC/EN61347-1 , IEC/EN61347-2-13 , EN55015, EN61000-3-2 Class C , EN61000-3-3, EN55024, EN61547 EN61000-4-2,3,4,5,6,8,11 ;

Dimensions

175

170

44

30

DMX/RDM Connection

N
L

DMX/RDM

0~100% Dimming

Push DIM Connection

N
L

Push DIM

Short press to On/Off, long press to DIM.

0~100% Dimming

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

Push Dimming

Reset Switch

- On/off control: Short press.
- Stepless dimming: Long press.
- For fine tuning of light level: 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.

1 2 3 4 5 6 7 8 9
DIP   ON↓

OFF ↕ ON

DMX Address Setting:

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

1 2 3 4 5 6 7 8 9
DIP   ON↓
001 002 004 008 016 032 064 128 256

OFF ↕ ON

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

1 2 3 4 5 6 7 8 9
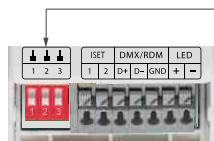DIP   ON↓
001 002 004 008 016 032 064 128 256

OFF ↕ ON

001+004+032=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).
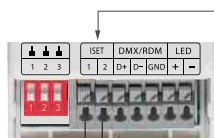
| ISET | DMX/RDM | LED |
| 1 2 3 | 1 2 D+ D- GND | + - |

180mA/ISET	250mA	350mA	400mA	500mA	550mA	600mA	700mA	ON	OFF
3~54V	3~54V	3~54V	3~54V	3~50V	3~36V	3~36V	3~36V		

✱ After current setting by DIP switch, power off and then power on to make the new current effective.

E.g. LED 3.2V/pcs: 3-54V can power 1-16pcs LEDs in series, 3-36V 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, connect ISET port with resistors of different values to set up any current from 180mA to 700mA (specific resistor values refer to the table).

| ISET | DMX/RDM | LED |
| 1 2 3 | 1 2 D+ D- GND | + - |

Connect to resistor

Connecting ISET with resistors can obtain the following typical currents.										
Current(mA)	180mA	200mA	225mA	250mA	275mA	300mA	325mA	350mA	375mA	400mA	425mA
Resistor(KΩ)	∞	99.30 KΩ	61.80KΩ	42.10 KΩ	32.53 KΩ	24.81 KΩ	20.27 KΩ	16.21KΩ	13.76 KΩ	10.82 KΩ	9.41 KΩ

Current(mA)	450mA	475mA	500mA	525mA	550mA	575mA	600mA	625mA	650mA	675mA	700mA
Resistor(KΩ)	7.58 KΩ	6.62 KΩ	5.12 KΩ	4.12 KΩ	3.15 KΩ	2.49 KΩ	1.73 KΩ	1.22 KΩ	0.61 KΩ	0.17 KΩ	0 KΩ