



LED Intelligent 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 temperature.
- 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 / Non-load protection.
- Non-load output voltage OV to prevent damages to LED caused by poor contact.
- Class 2 power supply. Full protective plastic housing.
- Compliant with Safety Extra Low Voltage standard.
- Suitable for indoor environments.















Dimmable: 0.1%-100%





5W~50W 500~1750mA 10~54Vdc

LTECH USYS





















Main Characteristics

Dimming Interface: DMX512/RDM, Push DIM Input Voltage Range: 100-240Vac ±10%

Frequency: 50/60Hz

Input Current: 115Vac≤0.6A, 230Vac≤0.3A

Power Factor: PF>0.99/115Vac, PF>0.95/230Vac, at full load

≤10% at 115Vac, ≤20% at 230Vac, at full load THD-

Efficiency: >85%

Inrush Current(tvp.): Cold start 50A at 230Vac

Control Surge Capability: L-N: 1kV Leakage Current: <0.5mA/230Vac

Operating Voltage: 10-54Vdc

Output Power Range: 5W~50W

Output Current: 500mA

700mA 900mA 1050mA 1200mA Output Voltage: 10-54V 10-54V 10-54V 10-48V 10-42V Output Power: 5-27W 7-37.8W 9-48.6W 10.5-50.4W 12-50.4W Current Accuracy: ±3% Max. Output Voltage: 58Vdc Non-load Output Voltage: UNdo

0~100%, LED start at 0.1% possible. Dimming Range:

≤4KHz PWM Frequency:

Working Temperature: tc: 80°C ta: -30°C ~ 55°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

1450mA 1600mA 1750mA 10-3/V 10-32V 10-29V 14.5-49.3W 16-51.2W 17.5-50.8W

Protection

Over-heat Protection: Shut down the output when PCB temp. ≥110°C, auto recovers when temp. back to normal.

When O/P voltage exceed its range, O/P current

Over Load Protection: 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.

Non-load Protection. Auto detecting, auto recovers when load back

to normal

Safety & EMC

I/P-0/P: 3750Vac Withstand Voltage:

I/P-O/P: 100MΩ/500VDC/25°C/70%RH Isolation Resistance: IEC/EN61347-1, IEC/EN61347-2-13 Safety Standards:

EMC Emission: EN55015, EN61000-3-2 Class C, IEC61000-3-3

EMC Immunity: EN61000-4-2,3,4,5,6,8,11 EN61547

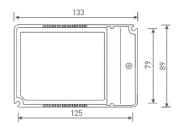
Others

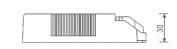
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Dimension: 133×89×30mm(L×W×H) 135×90×35mm(L×W×H) Packing:

320q±10q Weight(G.W.):

Dimensions

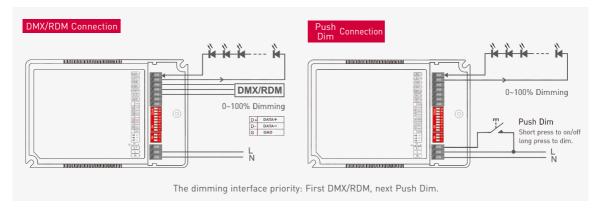




Connections







Push Dimming



Reset Switch

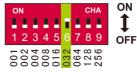
- On/off control: Short press.
- · Stepless dimming: Long press.
- With every other long press, the light level goes to the opposite direction.
- Dimming memory: Brightness will be the same as previously adjusted when turning off and on again.

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



DMX Address Setting:

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





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).



TTT	TIT	171	1 T T	TII	TIT	TTL	TTT	T	a
500mA/ISET	700mA	900mA	1050mA	1200mA	1450mA	1600mA	1750mA	ON	OFF
10-54V	10-54V	10-54V	10-48V	10-42V	10-34V	10-32V	10-29V	OIV	UFF

- After current setting by DIP switch, power off and then power on to make the new current effective.
- * E.g. LED 3.2V/pcs: 10-54V can power 3-16pcs LEDs in series, 10-29V can power 3-9pcs LEDs, the max quantity of LEDs in series will be subject to the actual voltage of LED.

Advanced options: Dial DIP switch down L L L , connect ISET port with resistors of different values to set up any current from 500mA to 1750mA (specific resistor values refer to the table).



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Connecting ISET with resistors can obtain the following typical currents.										
Current(mA)	500mA	550mA	600mA	650mA	700mA	750mA	800mA	850mA	900mA	
Resistor(K)	00	21.2KΩ	18.95 KΩ	17 KΩ	15.3KΩ	13.9 KΩ	12.64 KΩ	11.39 KΩ	10.3 KΩ	
Current(mA)	950mA	1000mA	1050mA	1100mA	1150mA	1200mA	1250mA	1300mA	1350mA	
Resistor(K)	9.38 KΩ	7.95 KΩ	7.18 KΩ	6.52 KΩ	5.87 KΩ	5.25 KΩ	4.62 KΩ	4.13 KΩ	3.69 KΩ	
Current(mA)	1400mA	1450mA	1500mA	1550mA	1600mA	1650mA	1700mA	1750mA		
Resistor(K)	3.24 KΩ	2.79ΚΩ	2.31 ΚΩ	2.03ΚΩ	1.63 KΩ	1.31 KΩ	1.05 KΩ	0 ΚΩ		