



LED Intelligent Driver

• Dimming interface: 0-10V (1-10V/PWM/RX), Push Dim.

- Built-in high performance MCU, dimming curve can be customized.
- 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-heat / Over 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.











Push DIM

0-10V 1-10V

PWM



±3%

58Vdc

OVdc

5 in 1 dimming

5W~50W 500~1750mA



Dimmable: 0.1%-100%





0-10V PUSH DIM









Current Accuracy:

Dimming Range:

PWM Frequency:

Working Humidity:

Temp. Coefficient:

Vibration:

Max. Output Voltage:

No Load Output Voltage:

Working Temperature:

Storage Temp., Humidity:





0~100%, LED start at 0.1% possible

10~500Hz, 2G 12min./1cycle, period

for 72min. each along X, Y, Z axes

tc: 80°C ta: -30°C ~ 55°C

-40 ~ 80°C, 10~95%RH

±0.03%/°C[0-50°C]

20 ~ 95%RH, non-condensing



Main Characteristics

0-10V (1-10V/PWM/RX), Push Dim Dimming Interface:

Input Voltage Range: 100-240Vac ±10%

Frequency: 50/60Hz

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

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

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

Efficiency: >85%

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

500mA

Control Surge Capability: L-N: 1kV Leakage Current: <0.5mA/230Vac Operating Voltage: 10-54Vdc

Output Power Range: 5W~50W

Output Current: Output Voltage: Output Power:

10-54V 10-54V 10-54V 10.5-50.4W 5-27W 7-37 8W 9-48 6W

900mA 1050mA 1200mA 10-48V 10-42V 12-50.4W

1450mA 10-34V

1600mA 10-32V 14.5-49.3W 16-51.2W 17.5-50.8W

1750mA 10-29V

Protection

Over-heat Protection:

Shut down the output when PCB temp. ≥110°C, auto recovers when temp. back to normal.

Over Load Protection:

When O/P voltage exceed its range, O/P current declines, auto recovers when the load is reduced.

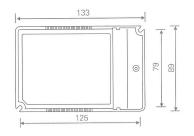
Short Circuit Protection:

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

Non-load Protection.

Auto detecting, auto recovers when load back to normal.

Dimensions



Safety & EMC

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

I/P-O/P: 100M Ω/500VDC/25°C/70%RH Isolation Resistance: 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: Packing:

133×89×30mm(L×W×H) 135×90×35mm(L×W×H)

Weight(G.W.):

320g±10g



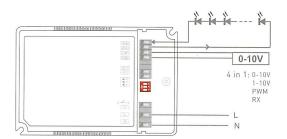
www.ltech-led.com

Connections

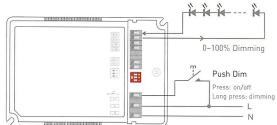




0-10V Connection



Push Connection



The dimming interface priority: First 0-10V, 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.

LED Current Selection

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

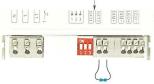


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500mA/ISET	700mA	900mA	1050mA	1200mA	1450mA	1600mA	1750mA	ON	OFF
10-54V	10-54V	10-54V	10-48V	10-42V	10-34V	10-32V	10-29V	JUN	

* 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).



Connect to resistor

	Conn	ecting ISET	with resis	stors can ob	tain the fo	llowing typi	ical curren	ts.	
Current(mA)	500mA	550mA	600mA	650mA	700mA	750mA	800mA	850mA	900mA
Resistor(KΩ)	00	130.08ΚΩ	83.5 KΩ	60.02 KΩ	46.37ΚΩ	37.01 KΩ	30.1 KΩ	25.24 KΩ	21.28 KΩ
Current(mA)	950mA	1000mA	1050mA	1100mA	1150mA	1200mA	1250mA	1300mA	1350mA
Resistor(KΩ)	18.15 KΩ	15.65 KΩ	13.5 KΩ	11.62 KΩ	10.8 KΩ	8.78 KΩ	7.57 KΩ	6.41 KΩ	5.65 KΩ
Current(mA)	1400mA	1450mA	1500mA	1550mA	1600mA	1650mA	1700mA	1750mA	
Resistor(KΩ)	4.81 KΩ	4.07 KΩ	3.4 ΚΩ	2.68ΚΩ	2.13 ΚΩ	1.63 ΚΩ	1.18 ΚΩ	0 ΚΩ	