

LED Intelligent Dimming Driver

5W~50W 500-1750mA 10-54V

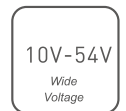
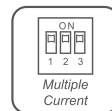
- Dimming interface: DALI, 1-10V, Push Dim.
- PWM digital dimming, standard DALI logarithmic dimming curve.
- 60000:1 wide dimming, range: 0~100%, LED start at 0.1% possible.
- Multiple current, wide voltage, compatible with a variety of LED lights.
- Power factor > 0.99, Efficiency > 85%
- Short circuit / Over-temperature / Over load protection.
- Class 2 power supply. Full protective plastic housing
- DALI bus standard: IEC62386..
- Compliant with Safety Extra Low Voltage standard.
- Suitable for indoor environments.



SELV



RoHS



Main Characteristics

Dimming Interface:	DALI (IEC62386), 1-10V, Push Dim							Operating Voltage:	10-54V DC
Dimming Range:	0~100%, LED start at 0.1% possible.							Output Power Range:	5W~50W
Input Voltage Range:	100-240V AC $\pm 10\%$							Current Accuracy:	$\pm 3\%$
Input Current:	115Vac $\leq 0.6A$, 230Vac $\leq 0.3A$							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:	$\geq 85\%$							Storage Temp., Humidity:	-40 ~ +80°C, 10~95%RH
Inrush Current(typ.):	Cold start 10A at 230V AC (twidh=75 μ s measured at 50% Ipeak)							Temp. Coefficient:	$\pm 0.03\%/^{\circ}C(0-50^{\circ}C)$
Leakage Current:	<0.5mA/230V AC							Vibration:	10~500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes
Output Current:	500mA	700mA	900mA	1050mA	1200mA	1450mA	1600mA	1750mA	
Output Voltage:	10-54V	10-54V	10-54V	10-47V	10-42V	10-34V	10-31V	10-29V	
Output Power:	5-27W	7-37.8W	9-48.6W	10.5-49.4W	12-50.4W	14.5-49.3W	16-49.6W	17.5-50.8W	

Protection

Short Circuit / Over Temperature / Over Load: Auto recovery

Others

Dimension: 133×89×30mm(L×W×H)

Packing: 135×90×35mm(L×W×H)

Weight[G.W.]: 290g±10g

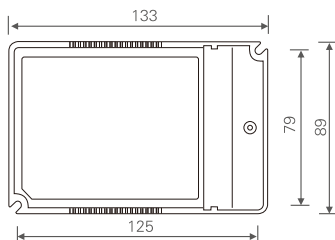
Safety & EMC

Withstand Voltage: I/P-O/P: 3750VAC;

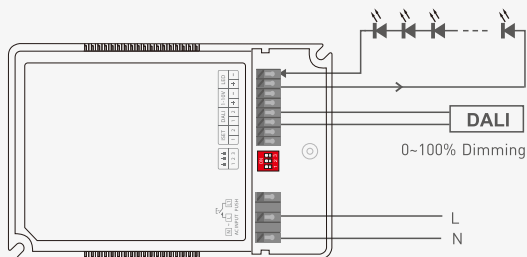
Isolation Resistance: I/P-O/P: 100M Ω /500VDC/25°C/70%RH

Safety Specification: IEC62386, 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.

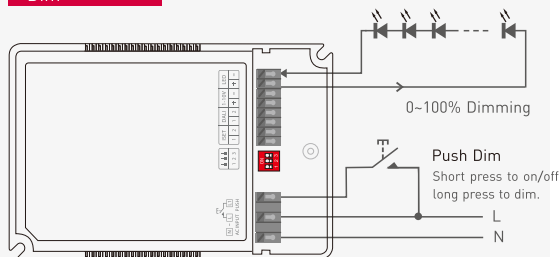
Dimensions



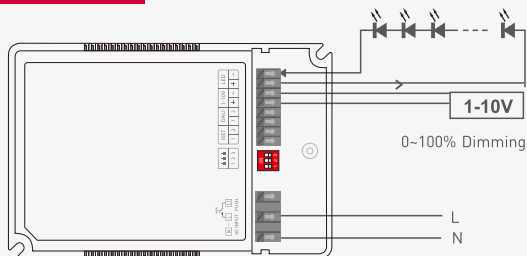
DALI Connection



Push Dim Connection



1-10V Connection



The dimming interface priority: First DALI, next 1-10V, the last one 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.

LED Current Selection

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

500mA/ISET	700mA	900mA	1050mA	1200mA	1450mA	1600mA	1750mA	ON	OFF
10-54V	10-54V	10-54V	10-47V	10-42V	10-34V	10-31V	10-29V		

* 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 $\downarrow \downarrow$, 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

Connecting ISET with resistors can obtain the following typical currents.									
Current(mA)	500mA	550mA	600mA	650mA	700mA	750mA	800mA	850mA	900mA
Resistor(K Ω)	∞	88.3 K Ω	58 K Ω	43.1 K Ω	34.7K Ω	27.5 K Ω	23 K Ω	20 K Ω	17 K Ω
Current(mA)	950mA	1000mA	1050mA	1100mA	1150mA	1200mA	1250mA	1300mA	1350mA
Resistor(K Ω)	14.42 K Ω	12.36 K Ω	10.47 K Ω	9.1 K Ω	7.8 K Ω	6.74 K Ω	5.7 K Ω	4.7 K Ω	3.9 K Ω
Current(mA)	1400mA	1450mA	1500mA	1550mA	1600mA	1650mA	1700mA	1750mA	
Resistor(K Ω)	3.22 K Ω	2.6 K Ω	2 K Ω	1.5 K Ω	1 K Ω	0.58 K Ω	0.174 K Ω	0 K Ω	

Attention:

- Before use, please make sure the LED driver output current matches with the LED lights. improper current will damage the LED lights or influence the luminous efficiency.
- Good heat dissipation can prolong the life of the LED driver. Please try to install the LED driver on the metal surface and use in well-ventilated environment.
- The wire size shall be big enough to load the power with solid connection to LED driver.
- If a malfunction occurs, do not repair by yourself. For any question, please contact the supplier directly.