

LED Intelligent Driver

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

- Dimming interface: DALI, 1-10V (0-10V,10V PWM,resistor), Push Dim.
- PWM digital dimming, no alter LED color rendering index.
- Dimming range: 0~100%, LED start at 0.1% possible.
- Power factor > 0.99, Efficiency > 85%.
- Multiple current, wide voltage, compatible with a variety of LED lights.
- Short circuit / Over-heat / Over load / Non-load protection.
- Non-load output voltage 0V to prevent damages to LED caused by poor contact.
- Class 2 power supply. Full protective plastic housing.
- DALI bus standard: IEC62386-101, 102, 207.
- Compliant with Safety Extra Low Voltage standard.
- Suitable for indoor environments.



SELV

DALI  
1-10V  
PUSH DIM

PWM  
*Digital Dimming*

PF  
>0.99

$\eta > 85\%$   
*Efficiency*

*Over-heat Protection*

*Short Circuit Protection*

*Over Load Protection*

*Multiple Current*

Main Characteristics

Dimming Interface: DALI, 1-10V (0-10V,10V PWM,resistor), Push Dim  
 Dimming Range: 0~100%, LED start at 0.1% possible.  
 Input Voltage Range: 100-240Vac ±10%  
 Input Current: 115Vac≤0.6A, 230Vac≤0.3A  
 Power Factor: PF>0.99/115Vac, PF>0.95/230Vac, at full load  
 Frequency: 50/60Hz  
 Efficiency: >85%  
 Inrush Current(typ.): Cold start 50A at 230Vac  
 Control Surge Capability: L-N: 1kV  
 Leakage Current: <0.5mA/230Vac  
 THD: <10% at 115Vac, <20% at 230Vac (full load)

Output Power Range: 5W~50W  
 Current Accuracy: ±3%  
 Max Output Voltage: 58Vdc  
 No Load Output Voltage: 0Vdc  
 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

Output Current :	500mA	700mA	900mA	1050mA	1200mA	1450mA	1600mA	1750mA
Output Voltage :	10-54V	10-54V	10-54V	10-48V	10-42V	10-34V	10-32V	10-29V
Output Power :	5-27W	7-37.8W	9-48.6W	10.5-50.4W	12-50.4W	14.5-49.3W	16-51.2W	17.5-50.8W

Protection

- Over-heat Protection: Ambient Temp. ≥65°C, shut down the output, auto recovers when re-power on.
- Over Load Protection: Shut down the output when rated power ≥102% ~125%, 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. Shut down the output if no load, auto recovers when load back to normal.

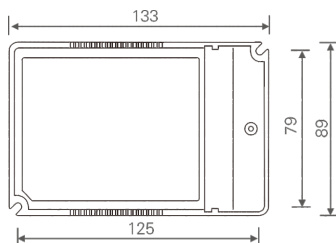
Safety & EMC

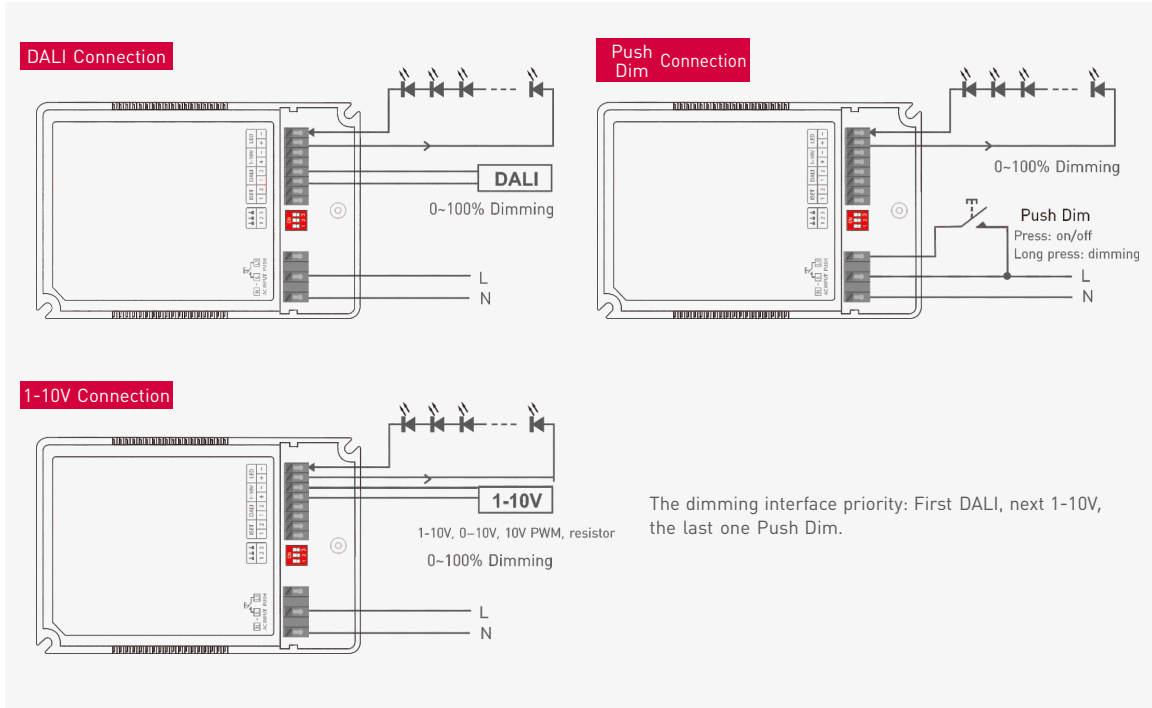
- Withstand Voltage: I/P-O/P: 3750Vac
- Isolation Resistance: I/P-O/P: 100MΩ/500VDC/25°C/70%RH
- Safety Standards: IEC/EN61347-1, IEC/EN61347-2-13
- EMC Emission: EN55015, EN61000-3-2 Class C, IEC61000-3-3
- EMC Immunity: EN61000-4-2,3,4,5,6,8,11 EN61547

Others

- Dimension: 133×89×30mm(L×W×H)
- Packing: 135×90×35mm(L×W×H)
- Weight(G.W.): 320g±10g

Dimensions





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

### Push Dimming

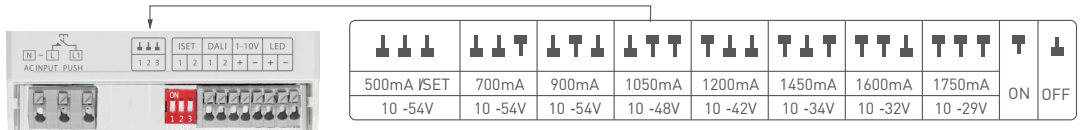


Reset Switch

- On/off control: Short press.
- Stepless dimming: Long press.
- 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

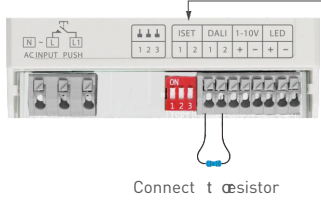
**Quick options:** DIP switch for 8 optional currents' quick selection(see the table below).



\* 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  $\tau$  resistor

Connecting ISET with resistors can obtain the following typical currents.

Current (mA)	500mA	550mA	600mA	650mA	700mA	750mA	800mA	850mA	900mA
Resistor $\text{K}\Omega$	$\infty$	21.2K $\Omega$	18.95 K $\Omega$	17 K $\Omega$	15.3K $\Omega$	13.9 K $\Omega$	12.64 K $\Omega$	11.39 K $\Omega$	10.3 K $\Omega$
Current (mA)	950mA	1000mA	1050mA	1100mA	1150mA	1200mA	1250mA	1300mA	1350mA
Resistor $\text{K}\Omega$	9.38 K $\Omega$	7.95 K $\Omega$	7.18 K $\Omega$	6.52 K $\Omega$	5.87 K $\Omega$	5.25 K $\Omega$	4.62 K $\Omega$	4.13 K $\Omega$	3.69 K $\Omega$
Current (mA)	1400mA	1450mA	1500mA	1550mA	1600mA	1650mA	1700mA	1750mA	
Resistor $\text{K}\Omega$	3.24 K $\Omega$	2.79K $\Omega$	2.31 K $\Omega$	2.03K $\Omega$	1.63 K $\Omega$	1.31 K $\Omega$	1.05 K $\Omega$	0 K $\Omega$	