

LED Intelligent Driver

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

- Dimming interface: DALI, Push Dim.
- PWM digital dimming, no alter LED color rendering index.
- Standard DALI logarithmic dimming curve.
- Dimming range: 0~100%, LED start at 0.1% possible.
- 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.



Dimmable:
0.1%~100%

SELV

DALI Push DIM	PWM Digital Dimming	PF >0.99	η >85% Efficiency	Over-heat Protection	Short Circuit Protection	Over Load Protection	Multiple Current
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Main Characteristics

Dimming Interface: DALI (IEC62386), 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
 THD: ≤10% at 115Vac, ≤20% at 230Vac, at full load
 Efficiency: >85%
 Inrush Current(typ.): 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

Current Accuracy: ±3%
 Max. Output Voltage: 58Vdc
 Non-load Output Voltage: 0Vdc
 Dimming Range: 0~100%, LED start at 0.1% possible.
 PWM Frequency: ≤4KHz
 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: 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.

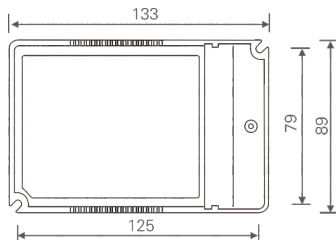
Safety & EMC

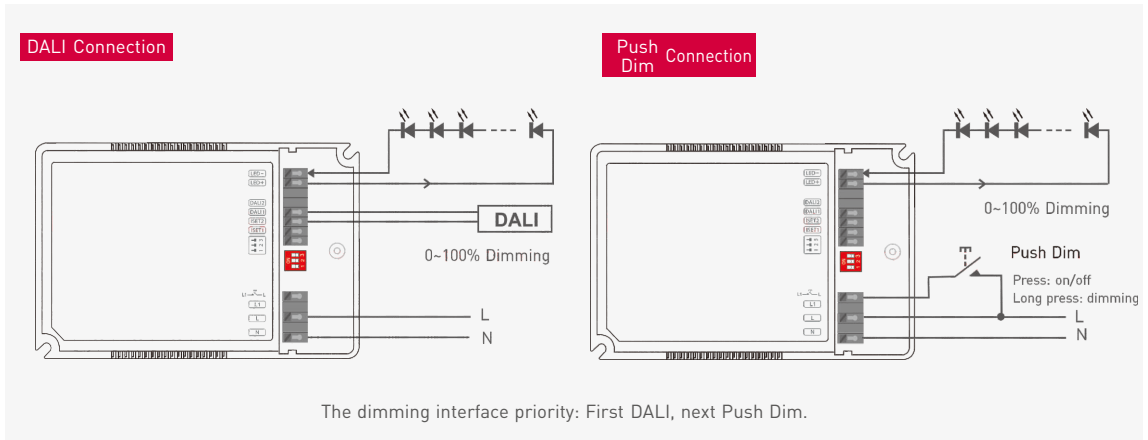
Withstand Voltage: I/P-O/P: 3750Vac
 Isolation Resistance: I/P-O/P: 100MΩ/500VDC/25°C/70%RH
 Safety Standards: IEC/EN61347-1, IEC/EN61347-2-13
 EMC Emission: EN55015, EN61000-3-2 Class C, IEC61000-3-3
 EMC Immunity: EN61000-4-2,3,4,5,6,8,11 EN61547

Others

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

Dimensions





Push Dimming

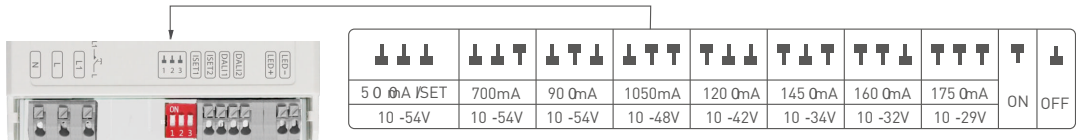


Reset Switch

- 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

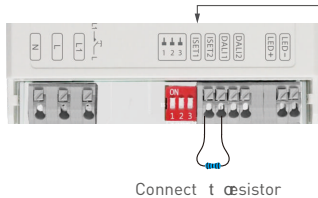
Quick options: DIP switch for 8 optional currents' quick selection[see the table below].



* 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 $\downarrow \downarrow \downarrow$, connect ISET port with resistors of different values to set up any current from 500mA to 1750mA (specific resistor values refer to the table).



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