

LED Intelligent Driver

0.3~15W 100~400mA 3~54Vdc

- 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.
- Power factor > 0.99, Efficiency > 83%
- Short circuit / Over-heat / Over load protection.
- 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 > 83%
Efficiency

Over-heat
Protection

Short Circuit
Protection

Over Load
Protection

Multiple
Current

Main Characteristics

Dimming Interface:	DALI (IEC62386), Push Dim								Output Power Range:	0.3W~15W
Input Voltage Range:	100-240Vac ±10%								Current Accuracy:	±3%
Frequency:	50/60Hz								Non-load Output Voltage:	58Vdc
Input Current:	115Vac≤0.20A, 230Vac≤0.10A								Dimming Range:	0~100%, LED start at 0.1% possible.
Power Factor:	PF>0.99/115Vac, PF>0.95/230Vac, at full load								PWM Frequency:	≤4KHz
THD:	<12% at 115Vac, <15% at 230Vac (full load)								Working Temperature:.	tc: 75°C ta: -30°C ~ 55°C
Efficiency:	>83%								Working Humidity:	20 ~ 95%RH, non-condensing
Inrush Current(typ.):	Cold start 20A@230Vac								Storage Temp., Humidity:	-40 ~ 80°C, 10~95%RH
Control Surge Capability:	L-N: 1kV								Temp. Coefficient:	±0.03%/°C(0-50°C)
Leakage Current:	<0.5mA/230Vac								Vibration:	10~500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes
Operating Voltage:	3~54Vdc									
Output Current :	100mA	120mA	150mA	200mA	250mA	300mA	350mA	400mA		
Output Voltage :	3-54V	3-54V	3-54V	3-54V	3-54V	3-50V	3-42V	3-38V		
Output Power :	0.3-5.4W	0.4-6.5W	0.5-8.1W	0.6-11W	0.8-13.5W	0.9-15W	1.1-14.7W	1.2-15.2W		

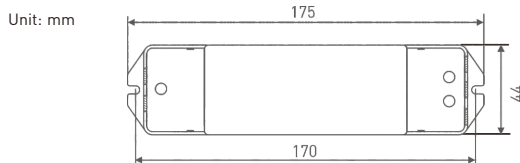
Protection

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

Others

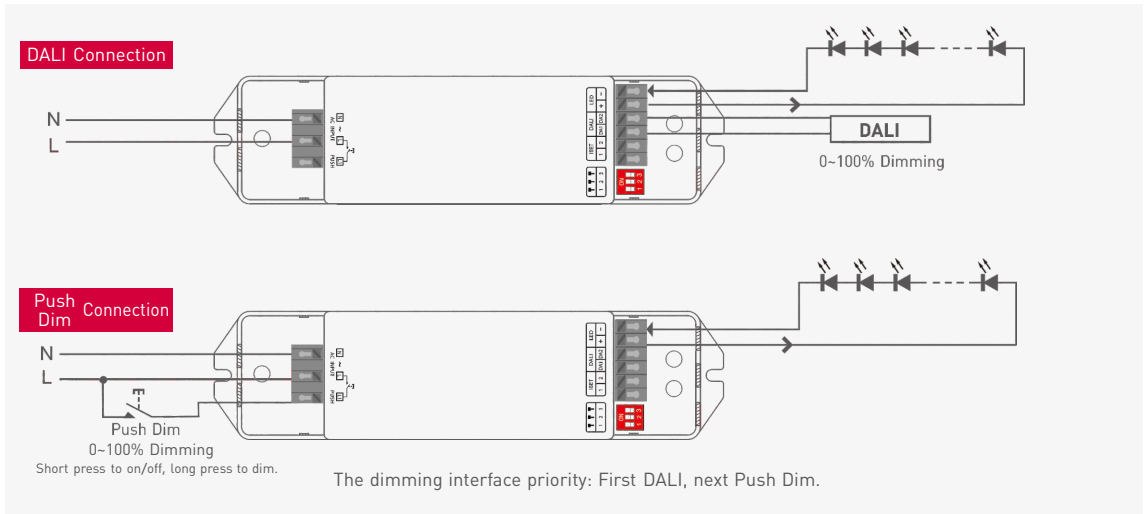
Dimension: 175×44×30mm(L×W×H)
 Packing: 178×48×33mm(L×W×H)
 Weight(N.W.): 160g±10g

Dimensions



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



Push Dimming

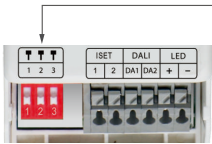


Reset Switch

- 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).

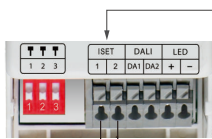


↑↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑
100mA/ISET	120mA	150mA	200mA	250mA	300mA	350mA	400mA	ON OFF
3-54V	3-54V	3-54V	3-54V	3-54V	3-50V	3-42V	3-38V	

* After current setting by DIP switch, power off and then power on to make the new current effective.

* E.g. LED 3.2V/pcs: 3-54V can power 1-16pcs LEDs in series, 3-38V can power 1-11pcs LEDs, the max quantity of LEDs in series will be subject to the actual voltage of LED.

Advanced options: Dial DIP switch down ↓↓↓, connect ISET port with resistors of different values to set up any current from 100mA to 400mA (specific resistor values refer to the table).



Connect resistor

Connecting ISET with resistors can obtain the following typical currents.													
Current(mA)	100mA	125mA	150mA	175mA	200mA	225mA	250mA	275mA	300mA	325mA	350mA	375mA	400mA
Resistor(KΩ)	∞	75.30 KΩ	36.70 KΩ	26.90 KΩ	16.56 KΩ	15.30 KΩ	9.10 KΩ	6.93 KΩ	5.94 KΩ	3.38 KΩ	2.95 KΩ	1.10 KΩ	0 KΩ