

LED Dimming Driver

36W 3A 12Vdc

- Dimming interface: DALI, Push Dim.
- Dimming range: 0~100%, LED start at 0.1% possible.
- DALI dimming curve: Linear curve or logarithmic curve.
- 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 I / II / III type lamps application.



Dimmable:
0.1%~100%

SELV



Main Characteristics

Dimming Interface:	DALI (IEC62386), Push Dim
Input Voltage Range:	100-240Vac ±10%
Frequency:	50/60Hz
Input Current:	115Vac ≤ 0.8A, 230Vac ≤ 0.4A
Efficiency:	>85%
Inrush Current(typ.):	Cold start 20A at 230Vac
Control Surge Capability: L-N:	1kV
Leakage Current:	<0.5mA/230Vac
Output Current :	Max. 3A
Output Voltage:	12Vdc
Output Voltage Range:	12Vdc ± 0.5Vdc

Ripple & Noise:	≤200mV
Output Power:	Max. 36W
Output Power Range:	0~36W
Overload Power Limitation:	≥102%~125%
Dimming Range:	0~100%, LED start at 0.1% possible.
PWM Frequency:	2KHz~4KHz
Working Temperature.:	tc: 70°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

- * The driver adapts to front-end hardware testing and back-end software to determine the dual processing for short circuit and over load protection. A better prevention can be happened from the output line short circuit or light overload which caused by the accident. In the mean time, the dimming driver will have much longer lifetime.
- * Based on the above factors, the driver is suitable for connecting the resistor current limited LED fixture (e.g. LED strip). If you connect the built-in constant current IC current limited of light, the instantaneous surge current will be several times increased, resulting in the driver will be mistaken for power overload, an overload protection action will be implemented (hiccups flickering). For built-in constant current IC current limited fixture, the driver should be customized.

Protection

Over-heat Protection:	Shut down the output when PCB temp. ≥ 110°C, auto recovers when temp. back to normal.
Over Load Protection:	Shut down the output when Current Load ≥ 102%~125%, auto recovers after faulty condition is removed.
Short Circuit Protection:	Shut down automatically if short circuit occurs, auto recovers after faulty condition is removed.

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

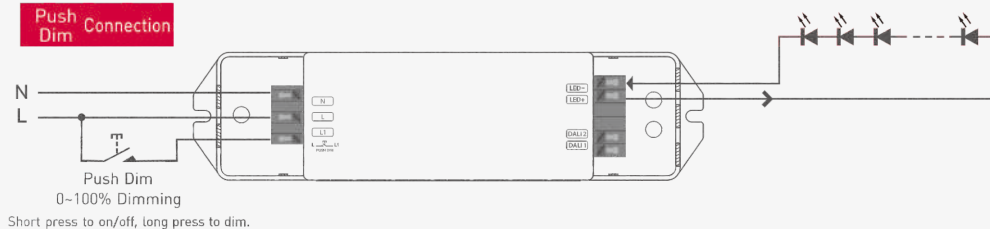
Others

Dimension:	175x44x30mm(LxWxH)
Packing:	178x48x33mm(LxWxH)
Weight(G.W.):	190g±10g

DALI Connection



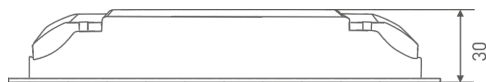
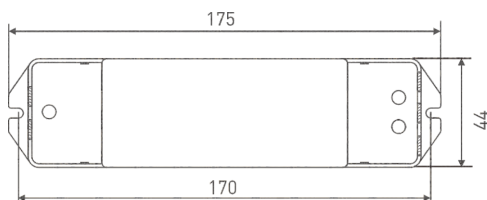
Push Dim Connection



The dimming interface priority: First DALI, next Push Dim.

Dimensions

Unit: mm



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.