AD-36-200-1200-E1A1

LTECH

0-10V
Push Dim

LED Intelligent Driver

2~36W 200~1200mA 10~54Vdc

- Dimming interface: 0-10V (1-10V/PWM/RX), Push Dim.
- Built-in high performance MCU, dimming curve can be customized.
- PWM digital dimming, no alter LED color rendering index.
- Dimming range: 0~100%, LED start at 0.1% possible.
- Multiple current, wide voltage, compatible with a variety of LED lights.
- Non-load output voltage 0V to prevent damages to LED caused by poor contact.
- Short circuit / Over-heat / Over load / Non-load protection.
- Class 2 power supply. Full protective plastic housing.
- Compliant with Safety Extra Low Voltage standard.
- Suitable for indoor environments.

5 in 1 dimming

0-10V
1-10V
PWM
RX
Push DIM

Dimmable:
0.1%-100%

SELV CE RoHS

Main Characteristics

Dimming Interface:	0-10V (1-10V/PWM/RX), Push Dim
Input Voltage Range:	200-240Vac ±10%
Frequency:	50/60Hz
Input Current:	0.25A@180Vac, 0.20A@230Vac
Power Factor:	PF>0.95/230Vac, at full load
THD:	≤15% at 230Vac, at full load
Efficiency:	>87%
Inrush Current(typ.):	Cold start 25A at 230Vac
Control Surge Capability:	L-N: 1kV
Leakage Current:	<0.5mA/230Vac
Operating Voltage:	10-54Vdc

Output Power Range:	2W~36W
Current Accuracy:	±3%
Max Output Voltage:	Max. 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：	200mA	350mA	500mA	600mA	700mA	900mA	1050mA	1200mA
Output Voltage：	10-54V	10-54V	10-54V	10-54V	10-52V	10-40V	10-35V	10-30V
Output Power：	2W-10.8W	3.5W-18.9W	5W-27W	6W-32.4W	7W-36.4W	9-36W	10.5-36.75W	12-36W

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 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

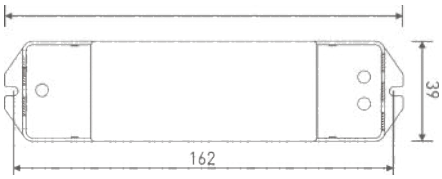
Withstand Voltage:	I/P-O/P: 3750Vac
Isolation Resistance:	I/P-O/P: 100MΩ/500VDC/25°C/70%RH
Safety Standards:	IEC/EN61347-1, IEC/EN61347-2-13
EMC Emission:	EN55015, EN61000-3-2 Class C, IEC61000-3-3
EMC Immunity:	EN61000-4-2,3,4,5,6,8,11 EN61547

Others

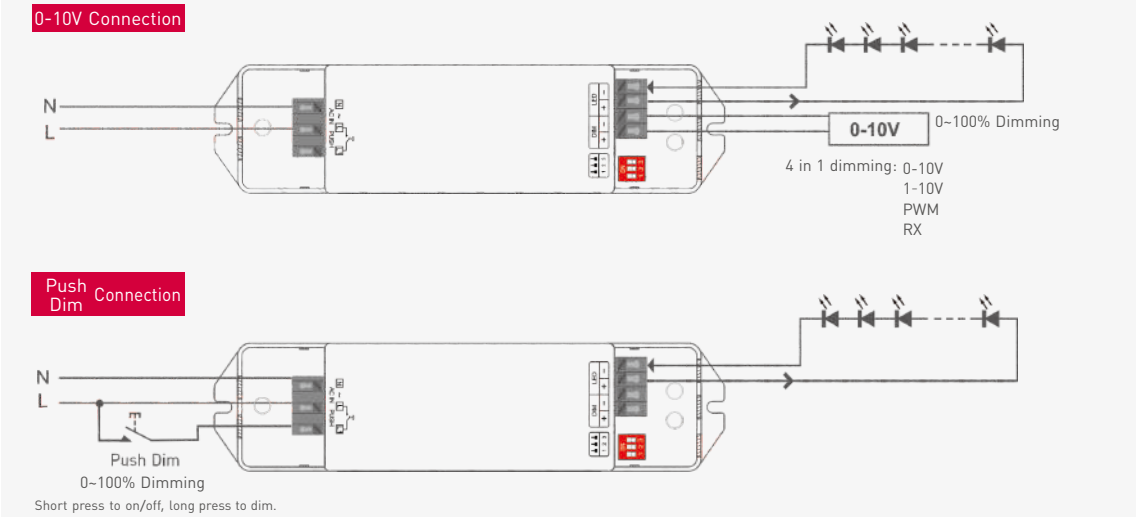
Dimension:	167×39×30mm(L×W×H)
Packing:	168×41×32mm(L×W×H)
Weight(G.W.):	165g±10g

Dimensions

Unit: mm



Connections



The dimming interface priority: First 0-10V, next Push Dim.

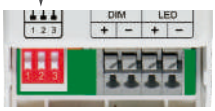
Push Dimming

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).



200mA	350mA	500mA	600mA	700mA	900mA	1050mA	1200mA	ON	OFF
10-54V	10-54V	10-54V	10-54V	10-52V	10-40V	10-35V	10-30V		

* 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, 10-30V can power 3-9pcs LEDs, the max quantity of LEDs in series will be subject to the actual voltage of LED.