

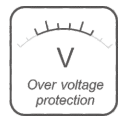
LED Intelligent Driver

150W 12.5A 12Vdc

- Dimming interface: Triac/ELV.
- Apply to leading edge and trailing edge TRIAC dimmers.
- PWM digital dimming, no alter LED color rendering index.
- Dimming range: Max. 0.1~100%.
- Efficiency > 85%.
- Short circuit / Over-heat / Over load / Over voltage protection.
- Compliant with Safety Extra Low Voltage standard.
- Suitable for indoor environments.



SELV             



Main Characteristics

Dimming Interface:	Triac / ELV
Input Voltage Range:	200-240Vac $\pm 10\%$
Frequency:	50/60Hz
Input Current:	230Vac $\leq 0.8A$
Efficiency:	$\geq 85\%$
Inrush Current(typ.):	Cold start 50A at 230Vac
Leakage Current:	I/P-O/P: $< 0.5mA/230Vac$
Output Current:	Max. 12.5A
Output Voltage:	12Vdc
Output Voltage Range:	12Vdc $\pm 0.5Vdc$

Ripple & Noise:	$\leq 200mV$
Output Power:	Max. 150W
Output Power Range:	1~150W
Overload Power Limitation:	$\geq 102\% \sim 125\%$
Dimming Range:	Max. 0.1~100%.
Working Temperature.:	tc: 85°C ta: -30°C ~ 60°C
Working Humidity:	20 ~ 95%RH, non-condensing
Storage Temp., Humidity:	-40 ~ 80°C, 10~95%RH
Temp. Coefficient:	$\pm 0.03\%/^{\circ}C(0-50^{\circ}C)$
Vibration:	10~500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes

* The dimming range parameters adopted LUTRON[®] dimming system as testing standards. The parameters may differ by using Triac/ELV dimming systems of different brands. We can customize program for clients' high requirements.

Attn: LUTRON[®] is registered trademarks of Lutron Electronics Co., Inc. registered in the U.S. and other countries

Protection

Over-heat Protection:	Shut down the output when PCB temp. $\geq 110^{\circ}C$, auto recovers when temp. back to normal.
Over Voltage Protection:	Shut down the output when non-load Voltage $\geq 13-18V$, auto recovers after fault condition is removed.
Over Load Protection:	Shut down the output when Current Load $\geq 102\% \sim 125\%$, auto recovers after faulty condition is removed.
Short Circuit Protection:	Shut down automatically if short circuit occurs, auto recovers after faulty condition is removed.

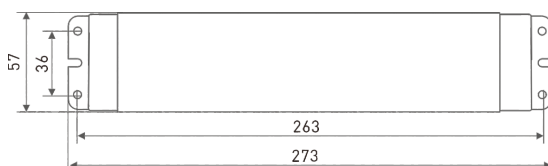
Safety & EMC

Withstand Voltage:	I/P-O/P: 3750Vac I/P-GND: $< 1800Vac$
Isolation Resistance:	I/P-O/P: 100M Ω /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:	273x57x37mm(LxWxH)
Packing:	278x59x42mm(LxWxH)
Weight[G.W.]:	605g $\pm 10g$

Dimensions





Selecting between ordinary dimmer and dimming system

Ordinary dimmer and dimming system have different dimming precision, precision of dimming system is higher. To meet customers' requirements on perfect dimming effects, we LTECH designed two programme options.

Method: Turn off the power and then remove the housing of the LED driver to find right component on the PCB. Shift system by selecting different contact pin (For installation professionals use only). Factory default as common (For ordinary dimmer).

