Class 2 Power supply

Features

- Universal AC input 100-120Vac;
- Constant voltage mode, Class 2 Power supply;
- TRIAC/ ELV/MLV dimming;
- Dimming range:0-100%,LED start at 1% possible;
- Multi-Protections: SCP/OVP/OTP/OLP ;
- Full protection metal case, for dry, damp location;
- 5 years warranty.

Applications

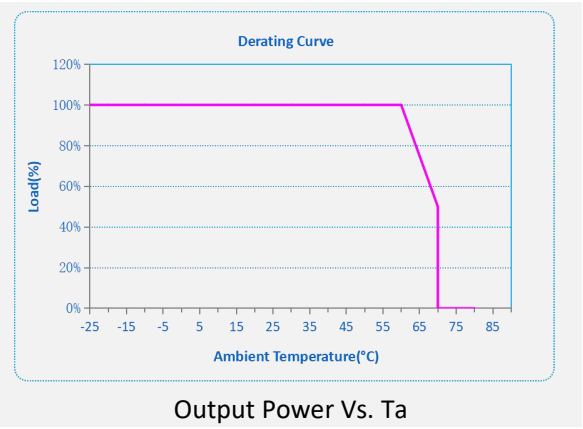
LED advertising light box
LED landscape lighting
LED outdoor lighting
LED Floodlight
LED greenhouse lighting

Technical Data

Model		L2D-060B-012 **Note.1**	L2D-060B-024
OUTPUT	DC VOLTAGE	12V	24V
	RATED CURREENT	5A	2.5A
	RATED POWER	60W	60W
	VOLTAGE TOLERANCE **Note.2**	±5%	
	LINE REGULATION	2%	
	LOAD REGULATION	3%	
	SETUP，RISE TIME **Note.4**	500mS, 50mS/120Vac	
INPUT	VOLTAGE RANGE **Note.3**	100-120Vac (Extreme input Voltage：90-132Vac)	
	FREQUENCY RANGE	50/60Hz	
	POWER FACTOR (Typ.)	PF≥0.98/120Vac, @ full load	
	TOTAL HARMONIC DISTORTION	THD< 20% (@full load)	
	EFFICIENCY (Typ.)	85%	87%
	AC CURRENT (Typ.)	0.65 A / 120Vac,	
	INRUSH CURRENT (Typ.)	≤30A COLD START 1.6ms	
	LEAKAGE CURRENT	<0.75mA /120Vac	
PROTECTION	OVER CURRENT	105%-140%	
	SHORT CIRCUIT	Hic cup, recovers after fault condition is removed	
	OVER VOLTAGE	＜35V	
	OVER TEMPERATURE	Hic cup, recovers after fault condition is removed	
ENVIRONMENT	WORKING TEMP.	-25~+45℃	
	MAX. CASE TEMP.	90℃	
	WORKING HUMIDITY	20~95% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH	
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes	
SAFETY & EMC	SAFETY STANDARDS	UL8750；CE	
	WITHSTAND VOLTAGE	I/P-O/P:2.5KVac, I/P-FG:1.6KVac, O/P-FG:0.5KVac	
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC / 25℃/ 70% RH	
	EMC EMISSION **Note.5**	FCC：PART 15B Class B; CE-EMC/RCM：EN55015，EN61000-3-2，EN61000-3-3	
OTHERS	MTBF	3251.2K hrs min. Telcordia SR-332 (Bellcore); 215.8K hrs min. MIL-HDBK-217F (25℃)	
	DIMENSION	L236*W45*H32.5mm	
	WARRANTY **Note.6**	5 years（Tc 75℃）	

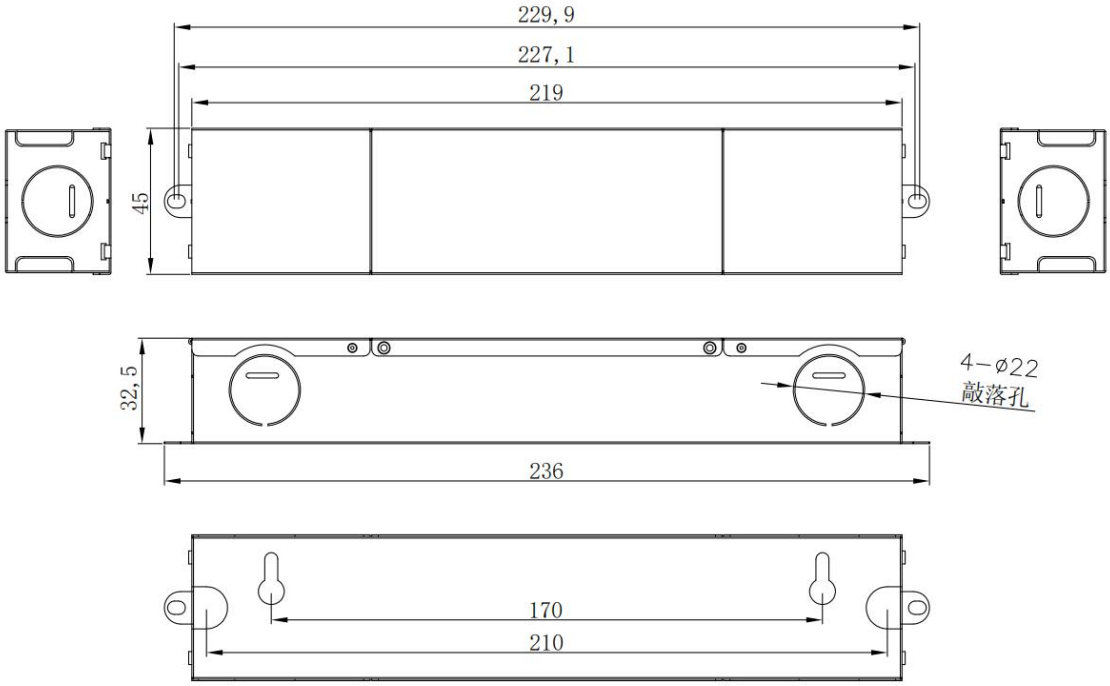
NOTE	1. All parameters NOT specially mentioned are measured at 230Vac input, rated current and 25℃ of ambient temperature. 2. Tolerance: includes set up tolerance, line regulation and load regulation. 3. De-rating may be needed under low input voltages. 4. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. 5. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 6. This series meets the typical life expectancy of >50,000 hours of operation when Tcase is about 75℃ or less.

Derating Curve



Output Power Vs. Ta

Mechanical Outline (unit: mm, ±0.5mm)



Wires	Specification	Remark
Input Wires	UL1015 3*18AWG Min. 300V Black : L, White: N, Green: PE	UL
Output Wires	UL1015 2*18AWG Min. 300V RED : LED+, Black : LED-	UL

Packaging

Model	L2D-060B-012	L2D-060B-024
Dimension	440×235×185（L×W×H）	
Quantity	32 PCS/Ctn	
Weight	420kg±30g/PCS；Gross Weight:16Kg ± 10%	

REVISION HISTORY

Version	Description of Change		Changed Date	Notes
	Before	Now		
A0	Release	---	2026/05/19	