



## ■ Features

- ✓ Universal AC input 120-277Vac;
- ✓ Constant voltage mode, Class 2 Power supply;
- ✓ Surge protection: DM: 6KV, CM: 10KV;
- ✓ Multi-Protections: OCP, OVP, SCP, OTP;
- ✓ IP67/IP68;
- ✓ 5 years warranty

## ■ Applications

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

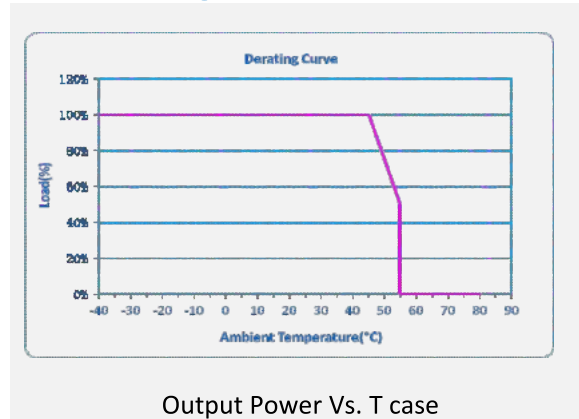
## ■ Technical Data

Model		L2-300N-012-5
OUTPUT	DC VOLTAGE	12V
	RATED CURRENT	5A*5 group
	RATED POWER	300W
	RIPPLE & NOISE <b>Note.2</b>	150mVp-p
	VOLTAGE TOLERANCE <b>Note.3</b>	±0.5V
	LINE REGULATION	1%
	LOAD REGULATION	1%
INPUT	SETUP, RISE TIME <b>Note.5</b>	1000mS, 50mS/120Vac      500mS, 50mS/230Vac
	VOLTAGE RANGE <b>Note.4</b>	120-277Vac (Extreme input Voltage: 100-305Vac)
	FREQUENCY RANGE	50/60Hz
	POWER FACTOR (Typ.)	PF ≥ 0.99/120VAC, PF ≥ 0.95/230VAC, PF ≥ 0.95/277VAC @ full load
	TOTAL HARMONIC DISTORTION	THD< 20% (@full load)
	EFFICIENCY (Typ.)	91%
	AC CURRENT (Typ.)	3A / 120VAC 1.7A / 230VAC 1.4A / 277VAC
	INRUSH CURRENT (Typ.)	≤120A COLD START 1.6ms
PROTECTION	LEAKAGE CURRENT	<0.75mA / 277VAC
	OVER CURRENT	105%-140%
	SHORT CIRCUIT	Hic cup, recovers after fault condition is removed
	OVER VOLTAGE	<16V
ENVIRONMENT	OVER TEMPERATURE	Hic cup, recovers after fault condition is removed
	WORKING TEMP.	-40~+45℃
	MAX. CASE TEMP.	90℃
	WORKING HUMIDITY	20~95% RH non-condensing
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH
SAFETY & EMC	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes
	SAFETY STANDARDS	UL8750; CE
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/P-FG:1.5KVAC
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃ / 70% RH
	EMC EMISSION <b>Note.6</b>	FCC: PART 15B Class B; CE-EMC/RCM: EN55015, EN61000-3-2, EN61000-3-3
OTHERS	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/EN61547, light industry level (surge immunity: Line-Earth 10KV, Line-Line:6KV)
	MTBF	2148.5K hrs min. Telcordia SR-332 (Bellcore); 177.2K hrs min. MIL-HDBK-217F (25℃)
	DIMENSION	L295*W72*H32mm
WARRANTY <b>Note.7</b>		5 years (Tc 75℃)

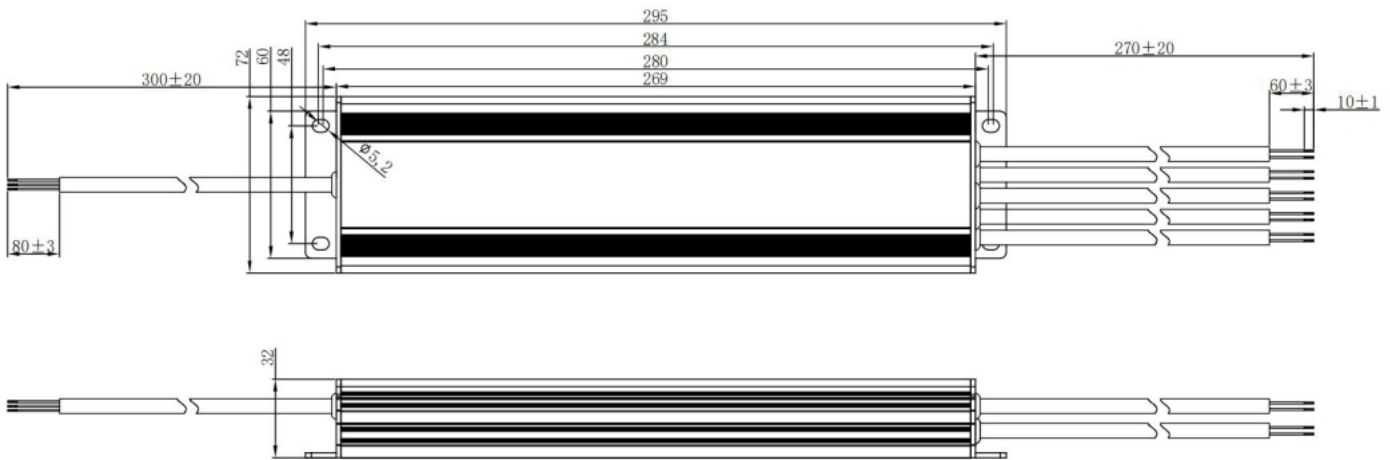
**NOTE**

1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
3. Tolerance: includes set up tolerance, line regulation and load regulation.
4. De-rating may be needed under low input voltages.
5. 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.
6. 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.
7. This series meets the typical life expectancy of >50,000 hours of operation when Tcase is about 75°C or less.

**Derating Curve**



**Mechanical Outline (unit: mm, ±0.5mm)**



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

**Packaging**

Model	L2-300N-012-5
Dimension	420×380×100mm (L×W×H)
Quantity	10PCS/Ctn
Weigh	1.2kg±5%/PC; Gross Weight: 13.5Kg ± 10%