



Features

- ✓ Universal AC input 100-277Vac;
- ✓ Constant voltage mode;
- ✓ 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

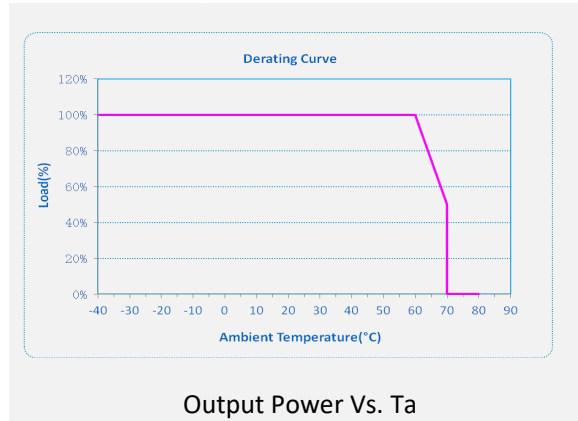
Technical Data

Model		L3-180N-012
OUTPUT	DC VOLTAGE	12V
	RATED CURRENT	15A
	RATED POWER	180W
	RIPPLE & NOISE <small>Note.2</small>	150mVp-p
	VOLTAGE TOLERANCE <small>Note.3</small>	±0.5V
	LINE REGULATION	1%
	LOAD REGULATION	1%
SETUP, RISE TIME <small>Note.5</small>	1000mS, 50mS/115Vac 500mS, 50mS/230Vac	
INPUT	VOLTAGE RANGE <small>Note.4</small>	100-277Vac (Extreme input Voltage: 90-305Vac)
	FREQUENCY RANGE	50/60Hz
	POWER FACTOR (Typ.)	PF ≥ 0.99/115VAC, PF ≥ 0.95/230VAC, PF ≥ 0.95/277VAC @ full load
	TOTAL HARMONIC DISTORTION	THD < 20% (@full load)
	EFFICIENCY (Typ.)	91%
	AC CURRENT (Typ.)	2A / 115VAC 1A / 230VAC 0.8A / 277VAC
	INRUSH CURRENT (Typ.)	≤ 100A COLD START 1.6ms
LEAKAGE CURRENT	< 0.75mA / 277VAC	
PROTECTION	OVER CURRENT	105%-140%
	SHORT CIRCUIT	Hic cup, recovers after fault condition is removed
	OVER VOLTAGE	< 16V
	OVER TEMPERATURE	Hic cup, recovers after fault condition is removed
ENVIRONMENT	WORKING TEMP.	-40~+60℃
	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:3.75KVAC I/P-FG:1.6KVAC 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 <small>Note.6</small>	FCC: PART 15B Class B; CE-EMC/RCM: EN55015, EN61000-3-2, EN61000-3-3
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)	
OTHERS	MTBF	2327.2K hrs min. Telcordia SR-332 (Bellcore); 174.8K hrs min. MIL-HDBK-217F (25℃)
	DIMENSION	L212*W72*H32mm
	WARRANTY <small>Note.7</small>	5 years (Tc 75℃)

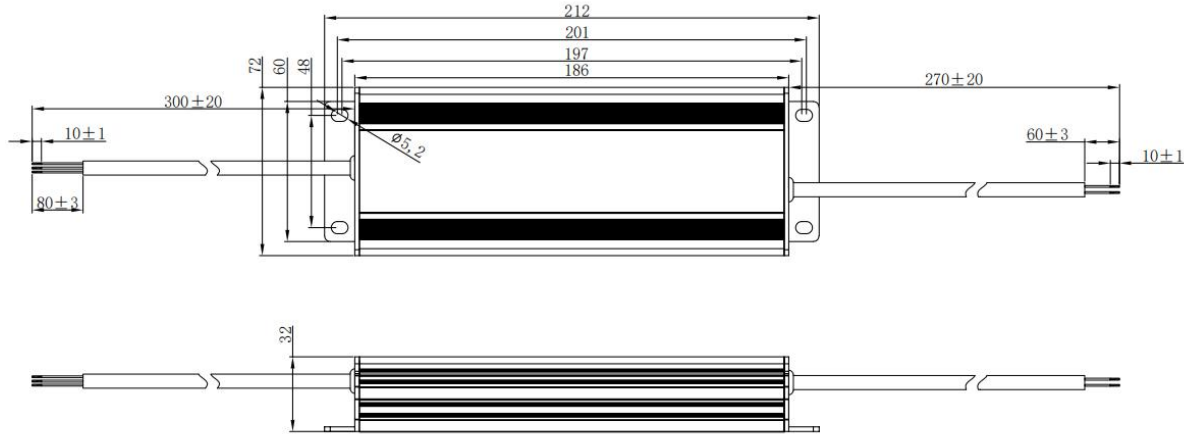


NOTE	<ol style="list-style-type: none"> All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. De-rating may be needed under low input voltages. 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. 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. This series meets the typical life expectancy of >50,000 hours of operation when Tcase is about 75°C or less.
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Derating Curve



Mechanical Outline (unit: mm, ±1mm)



Wires	Specification	Remark
Input Wires	SJOW or SJTW 3C*18AWG Min. 300V Black : L, White: N, Green: PE	UL
Output Wires	SJOW or SJTW 14C*18AWG Min. 300V RED : LED+, Black : LED-	UL

Packaging

Model	L3-180N-012
Dimension	423×262×115mm (L×W×H)
Quantity	10PCS/Ctn
Weigh	0.9kg±5%/PC; Gross Weight: 10.8Kg ± 10%



