

SPECIFICATION

HJ Series

Constant Voltage LED DRIVER

MODEL NO.: LD-240W-XX#

DESIGN NO.: LD240W

VERSION NO.: 001



■ Features

- Universal AC input voltage 100-277VAC
- Efficiency up to 90%
- High power factor, $PF \geq 0.95$
- Single channel & constant voltage mode
- Protection: OCP, OVP, SCP, OTP
- UL/cUL, RoHS, CE, ENEC, GS, Class P, Type HL Approved
- Non dimming
- Typical lifetime > 50000 hours
- 5 years warranty
- Cooling by free air convection
- IP65 IP67 Rated Enclosure for Indoor and Outdoor Use
- Available with or without integrated Junction Box

240W Constant Voltage LED DRIVER

12/24/36/48VDC



CLASS P TYPE HL RoHS

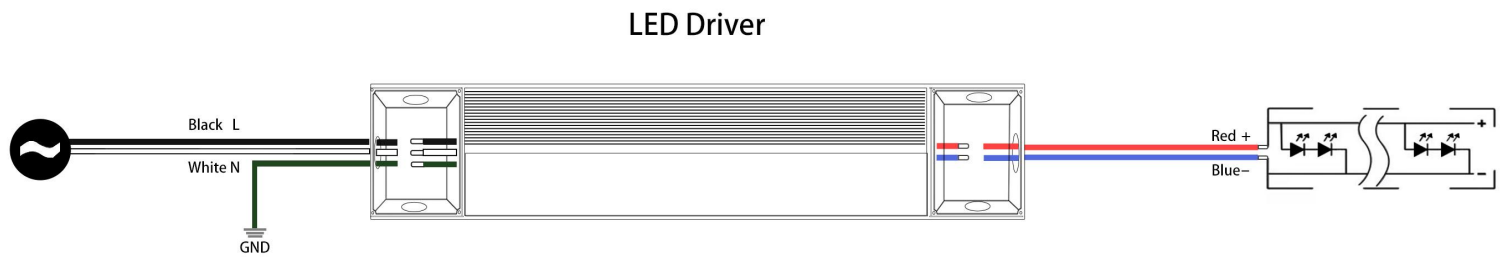
Description

LD-240W HJ Series is one 240W LED variable AC-DC driver, with constant voltage output design as the main characteristics. This HJ series model can work at input voltage 100~277 VAC, and provide a variety of rated output voltage between 12V, 24V, 36V, 48V. It is created for many lighting applications including advertising sign、led light-box. The high efficiency of the driver and compact metal case enables them to run cooler, significantly improving reliability and extending product life. To ensure trouble-free operation, protection is provided against input surge, over current, output over voltage, short circuit, and over temperature.

■ Specification

MODEL		LD-240W-12#	LD-240W-24#	LD-240W-36#	LD-240W-48#	
OUTPUT	Output Voltage	12V	24V	36V	48V	
	Rated current	20A	10A	6.66A	5A	
	Rated power	240W	240W	240W	240W	
	Ripple & Noise (max.)	200mVp-p	250mVp-p	250mVp-p	250mVp-p	
	Voltage accuracy	±2.0%	±2.0%	±2.0%	±2.0%	
	Linear adjustment rate	±0.5%	±0.5%	±0.5%	±0.5%	
	Load adjustment rate	±0.5%	±0.5%	±0.5%	±0.5%	
	Start, rise time	500ms, 100ms/230VAC, 1000ms, 100ms/115VAC				
	Hold time	10ms/115VAC, 230VAC				
INPUT	Voltage range	100 ~ 277VAC				
	Frequency range	47 ~ 63Hz				
	Power factor	PF≥0.98/115VAC, PF≥0.95/230VAC , PF≥0.9 /277VAC, Full load				
	Total harmonic distortion	THD< 20% (@ load ≥50%/115VAC,230VAC; @ load ≥75%/277VAC)				
	Efficiency	Vin: 115VAC	≥89.6%	≥91.87%	≥92.37%	≥92.87%
		Vin: 230VAC	≥92.5%	≥93.15%	≥93.65%	≥94.15%
	AC current	3.0A				
	Inrush current	Cold start 75A(width=350us measured at 50% I peak)/230Vac				
	Leakage current	< 1 m A				
No load/ standby power consumption	< 4.2W					
Protection	Over current	95 ~ 110%				
		95 ~ 110% Constant current limit, load abnormal condition can be removed after automatic recovery				
	Short circuit	Burp mode, load abnormal conditions can be removed after automatic recovery				
	Over voltage	13 ~ 16 V	26 ~ 32 V	39 ~ 47 V	52 ~ 63V	
		Turn off the output voltage, restart and resume				
Over temperature	Turn off the output voltage, restart and resume					
Environment	Working Temp	T case=-40 ~ +50℃				
	Max.Case Temp	T case=+90℃				
	Working Humidity	20 ~ 95% RH, non-condensing				
	Storage Temp.,Humidity	-40 ~ +90℃, 10 ~ 95% RH				
	Temp.Coefficient	±0.03%/℃ (0 ~60℃)				
	Vibration	10~500Hz, 5G 12min./1 cycle, period for 72 min. each along X,Y,Z axes				
Safety & EMC	Safety standards:UL8750+UL1310					
	Withstand voltage:I/P-O/P:1.88KVac					
	Isolation resistance:I/P-O/P:100MΩ/500VDC/25℃/70%RH					
	EMC EMISSION:Confirms to FCC					

■ Connect Drawing

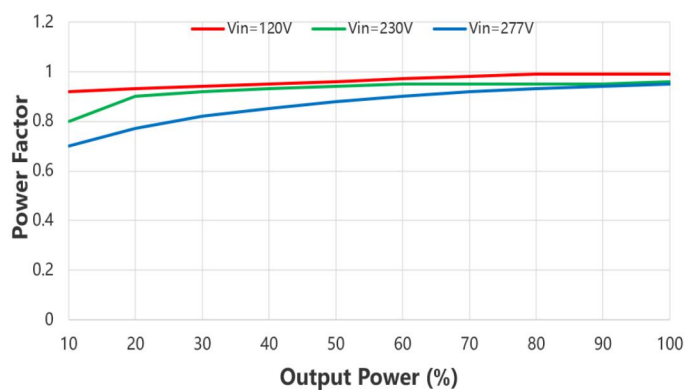


Warning:

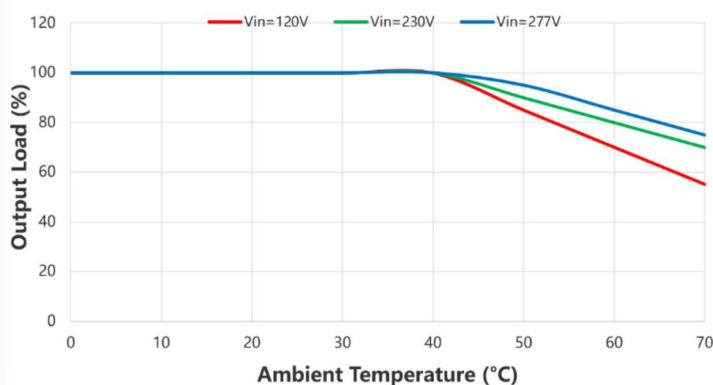
- * This driver should be installed by qualified and professional person;
- * Suitable for indoor use without direct sunlight exposure; Good ventilation are need;
- * Ensure that wiring is correct before test in order to avoid light damage;
- * If driver cannot work normally, don't maintain privately; Have any questions, please contact "Keysun".

■ Relationship diagrams

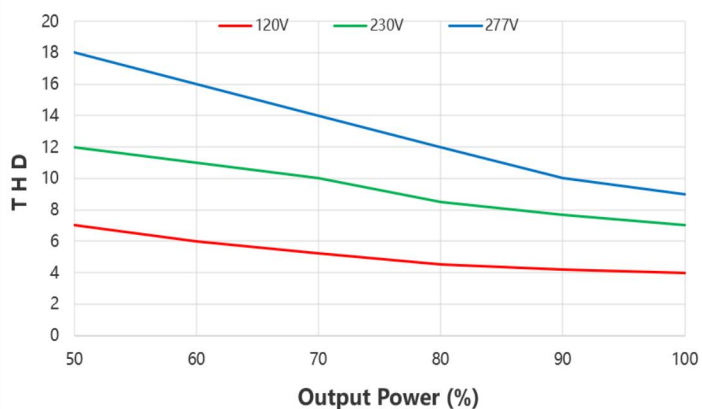
Power Factor - Output Power Curve



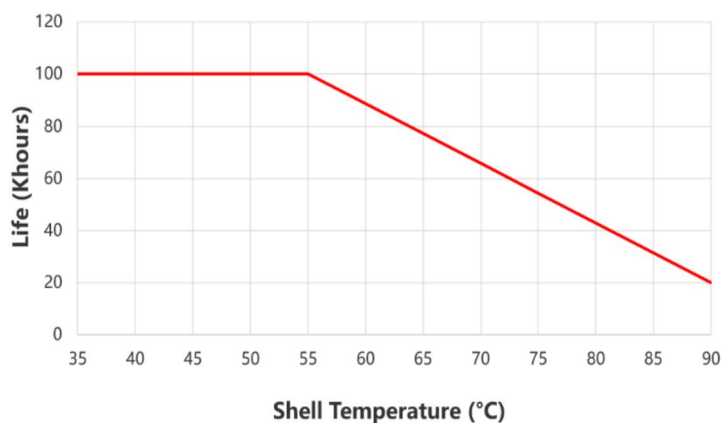
Output Load - Ambient Temperature Curve



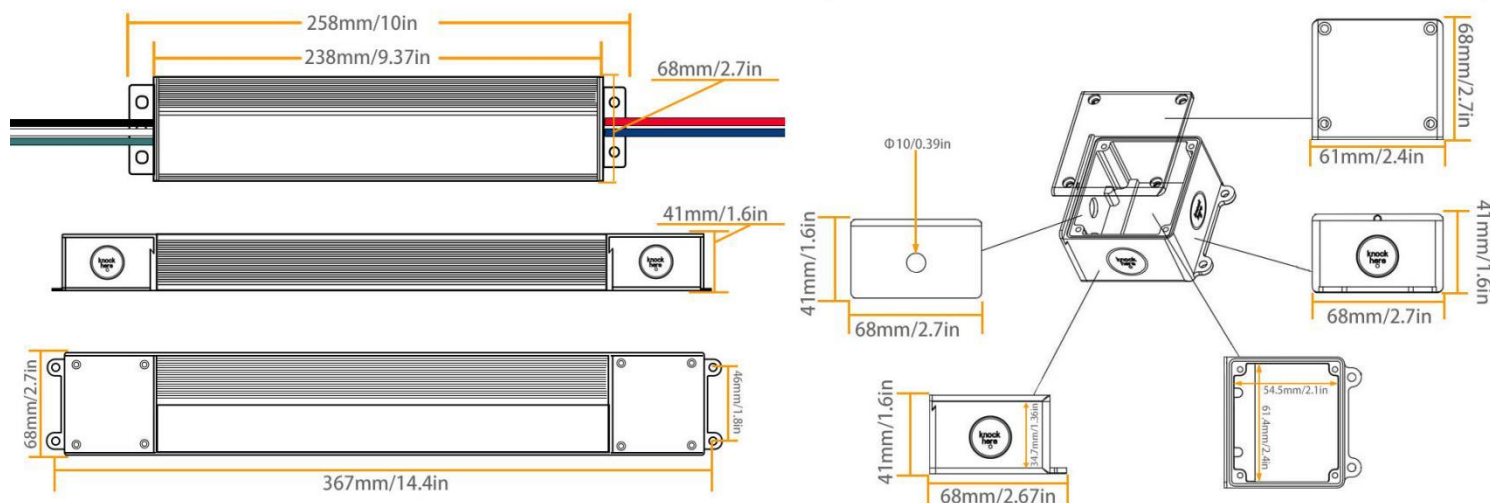
THD - Output Power Curve



Life - Shell Temperature Curve



■ Mechanical Specification & Label



SPLENDOR

INPUT
 ● AC L (BLACK)
 ● AC N (WHITE)
 ⊕ (GREEN/YELLOW)

NON-Dimmable LED Driver

MODEL: LD-240AW-24
 INPUT: 100-277V~, 1.89A, 50/60Hz, PF:0.95
 OUTPUT: 24V $\pm$ 10A, 240W
 Suitable for use in Dry, Damp and Wet Locations



CONFORMS TO UL STD. 8750
 CERTIFIED TO CSA STD. C22.2 NO. 250.13



OUTPUT

(RED) Vo + ●
 (BLUE) Vo - ●
 MADE IN CHINA

■ Package Information

Brown box: 382*74*45mm; Carton: 400*400*165mm; Quantity: 15pcs/carton; G.W: 22kgs/carton.

Note:

AC Input Cord	UL SJTW #18AWG 3*0.82mm ² , ØD: 7.8mm; Green: Ground, Black: L, White: N
DC Output Cord	UL SJTW #14AWG 2*2.08mm ² , ØD: 8.7mm; Red: V+, Blue: V-