

■ 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

100W Constant Voltage LED DRIVER



CLASS P TYPE HL RoHS

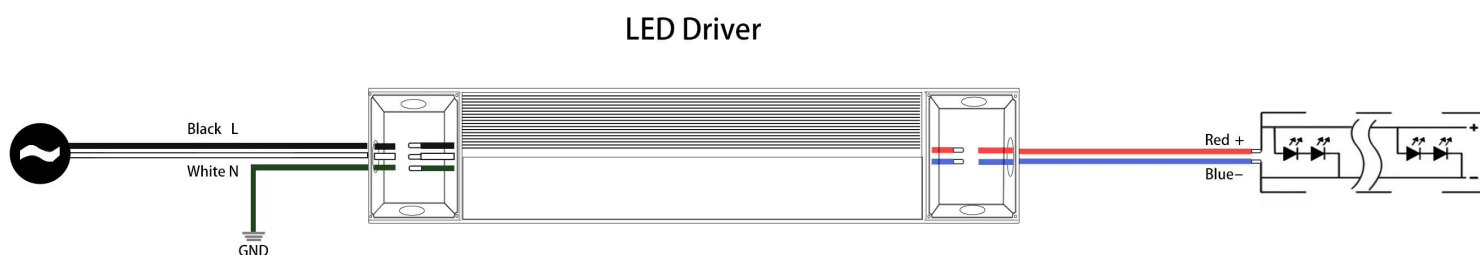
Description

LD-100AW HJ Series is one 100W 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-100AW-12#	LD-100AW-24#	LD-100AW-36#	LD-100AW-48#
OUTPUT	Output Voltage	12V	24V	36V	48V
	Rated current	8.33A	4.16A	2.77A	2.08A
	Rated power	100W	100W	100W	100W
	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	≥87.56%	≥91.3%	≥91.53%
		Vin: 230VAC	≥89.25%	≥92.7%	≥93.2%
	AC current	1.26A			
	Inrush current	Cold start 75A(width=350us measured at 50% I peak)/230Vac			
	Leakage current	< 1 mA			
Protection	No load/ standby power consumption	< 3.4W			
	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
Environment	Turn off the output voltage, restart and resume				
	Over temperature	Turn off the output voltage, restart and resume			
	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			
Safety & EMC	Temp.Coefficient	±0.03%/℃ (0 ~60℃)			
	Vibration	10~500Hz, 5G 12min./1 cycle, period for 72 min. each along X,Y,Z axes			
	Safety standards:UL8750+UL1310				
	Withstand voltage:I/P-O/P:1.88KVac				
Safety & EMC	Isolation resistance:I/P-O/P:100MΩ/500VDC/25℃/70%RH				
	EMC EMISSION:Confirms to FCC				

■ Connect Drawing

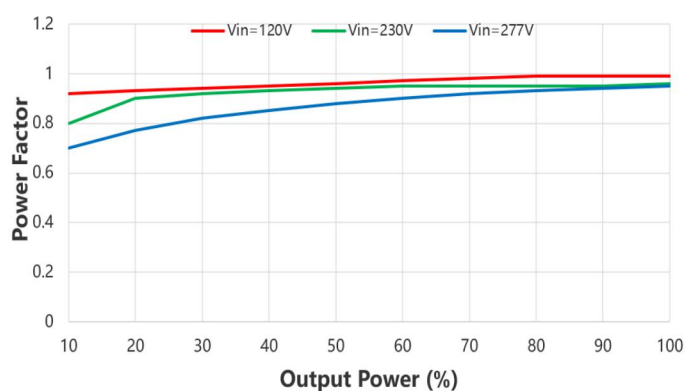


Warning:

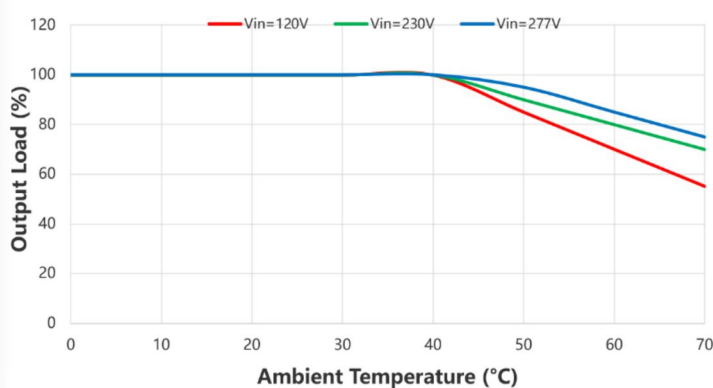
- * This driver should be installed by qualified and professional person;
- * Suitable for indoor use without direct sunlight exposure; Good ventilation are need;
- * Ensure that wiring is correct before test in order to avoid light damage;
- * If driver cannot work normally, don't maintain privately;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

■ Relationship diagrams

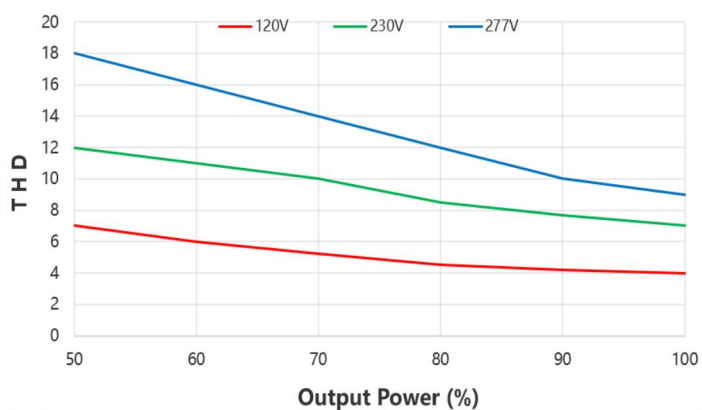
Power Factor - Output Power Curve



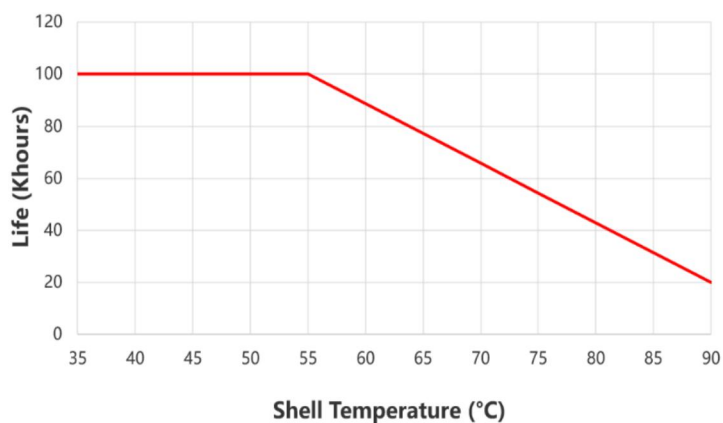
Output Load - Ambient Temperature Curve



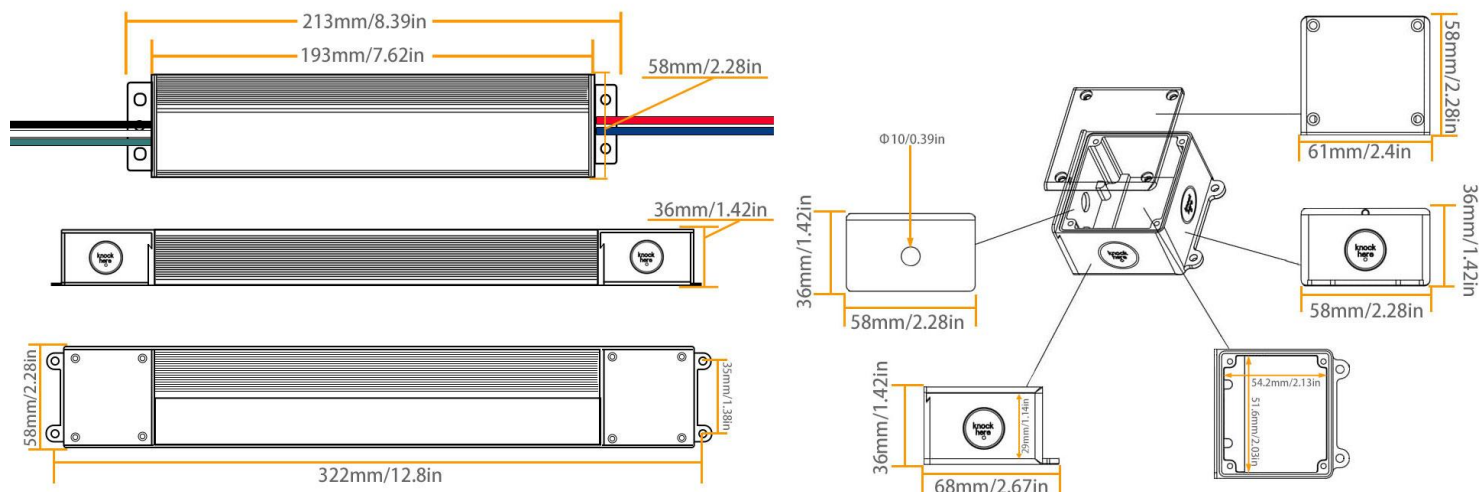
THD - Output Power Curve



Life - Shell Temperature Curve



■ Mechanical Specification & Label



SPLENDOR

INPUT

- AC L (BLACK)
- AC N (WHITE)
- ⊕ (GREEN/YELLOW)

NON-Dimmable LED Driver

MODEL: LD-100AW-12

INPUT: 100-277V~, 1.89A, 50/60Hz, PF:0.95

OUTPUT: 12V --- 8.33A, 100W

Suitable for use in Dry, Damp and Wet Locations



CONFORMS TO UL STD. 8750

CERTIFIED TO CSA STD. C22.2 NO. 250.13

CE RoHS SELV 110

OUTPUT

- (RED) V_o + ●
- (BLUE) V_o - ●

MADE IN CHINA

■ Package Information

Brown box: 339*65*41mm; Carton: 360*356*190mm; Quantity: 20pcs/carton G.W:18kgs/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 #16AWG 2*1.31mm ² , ØD: 7.95mm; Red: V+, Blue: V-