

SPECIFICATION

HJ Series

Constant Voltage LED DRIVER

MODEL NO.: KS-40AW-XX#

DESIGN NO.: KS40W

VERSION NO.: 001



■ Features

- Universal AC input voltage 100-277VAC
- 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

40W Constant Voltage LED DRIVER

12/24/36/48VDC



FC CE CLASS P CLASS 2 RoHS

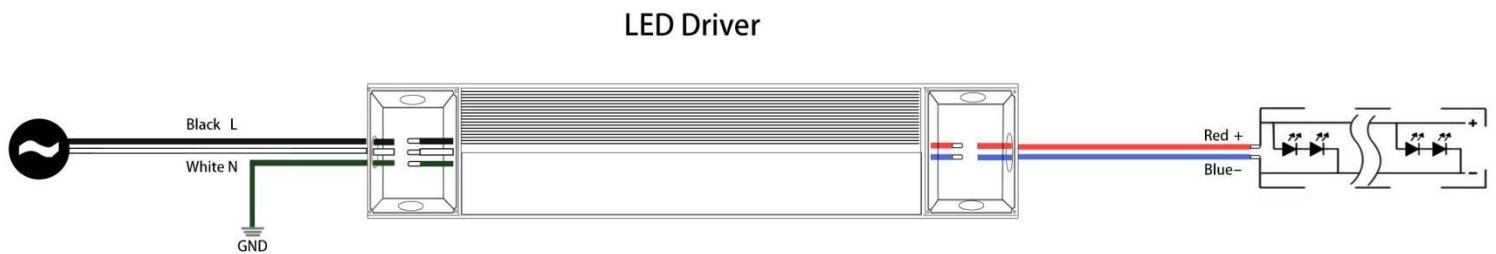
Description

KS-40AW HJ Series is one 40W 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		 KS-40AW-12	 KS-40AW-24	 KS-40AW-36	 KS-40AW-48
OUTPUT	Output Voltage	12V	24V	36V	48V
	Rated current	3.33A	1.66A	1.11A	0.83A
	Rated power	40W	40W	40W	40W
	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	≥88.01%	≥89.26%	≥89.76%
		Vin: 230VAC	≥89.2%	≥89.78%	≥90.28%
	AC current	0.5A			
	Inrush current	Cold start 75A(width=350us measured at 50% I peak)/230Vac			
	Leakage current	< 1 m A			
Protection	No load/ standby power consumption	< 2W			
	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			
Environment	Over temperature	Turn off the output voltage, restart and resume			
	Working Temp	T case= -40 ~ +50°C			
	Max.Case Temp	T case= +90°C			
	Working Humidity	20 ~ 95% RH, non-condensing			
	Storage Temp., Humidity	-40 ~ +90°C, 10 ~ 95% RH			
	Temp.Coefficient	±0.03%/°C (0 ~ 60°C)			
Safety & EMC	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				
	Isolation resistance:I/P-O/P:100MΩ/500VDC/25°C/70%RH				
Safety & EMC	EMC EMISSION:Confirms to FCC				

■ Connect Drawing

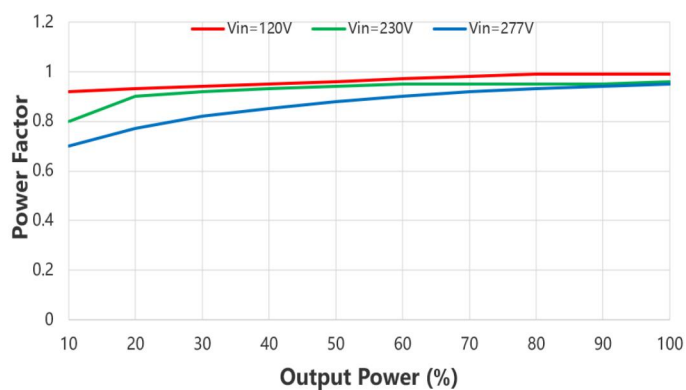


Warning:

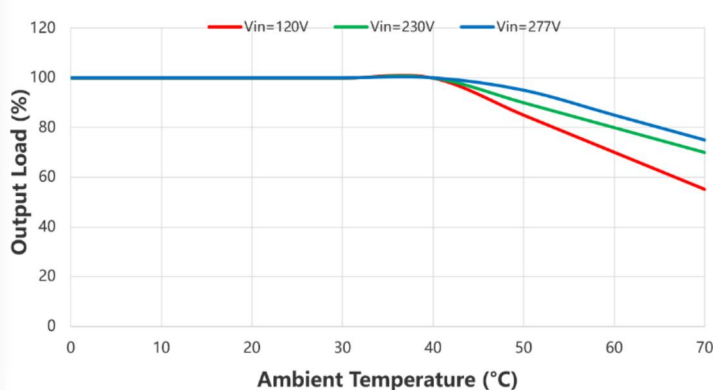
- ※ This driver should be installed by qualified and professional person;
- ※ Suitable for indoor use without direct sunlight exposure; Good ventilation are need;
- ※ Ensure that wiring is correct before test in order to avoid light damage;
- ※ If driver cannot work normally, don't maintain privately;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

Relationship diagrams

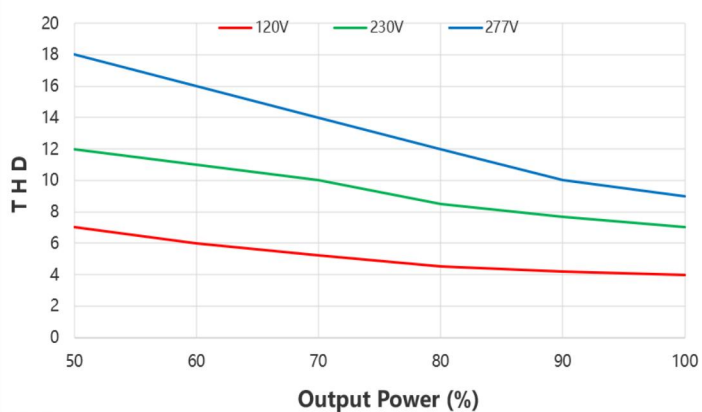
Power Factor - Output Power Curve



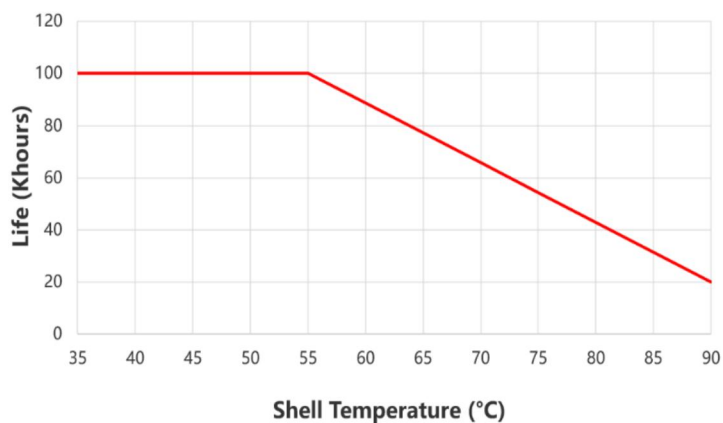
Output Load - Ambient Temperature Curve



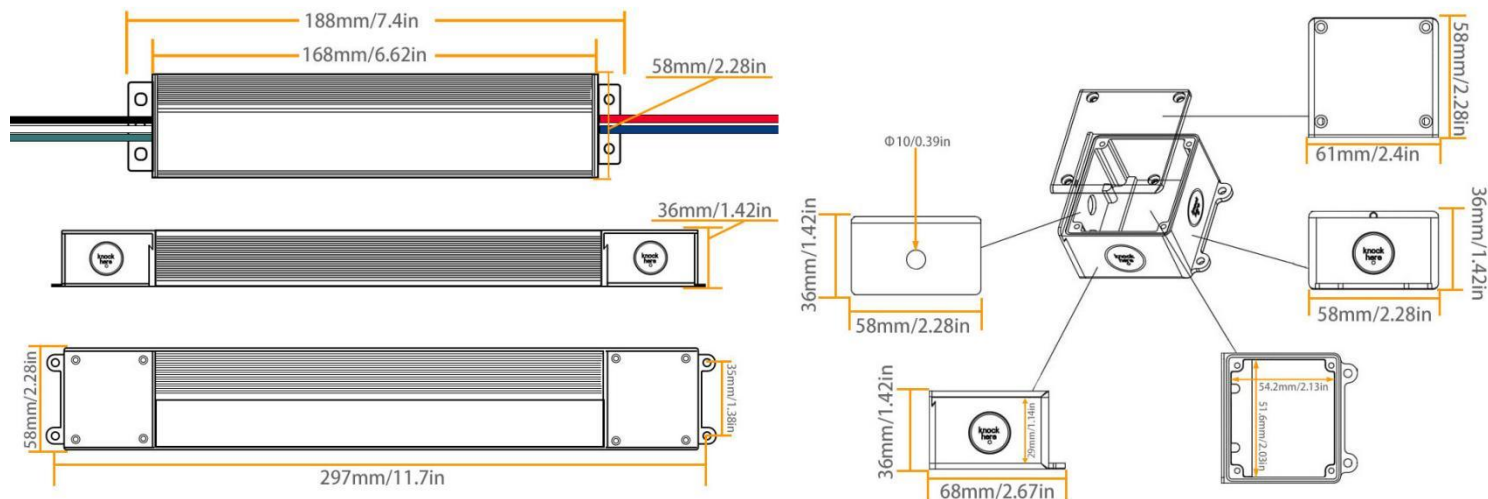
THD - Output Power Curve



Life - Shell Temperature Curve



■ Mechanical Specification & Label


KSPOWER
Class 2 LED Driver
INPUT

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

Constant Voltage

MODEL: KS-40AW-12

INPUT: 100-277V~,0.5A max,50/60Hz,PF≥0.95

OUTPUT: 12V=3.33A,40W

Manufacturer: Shenzhen Keysun Technology Limited


Class P TYPE HL RoHS SELV

CONFORMS UL cUL 8750 CONFORMS FCC

CONFORMS CAN/CSA-C22.2 NO.250.13

WARNING-Risk of Fire or Electric Shock

Do not interconnect output terminations

SUITABLE FOR DRY,DAMP AND WET LOCATIONS

For Connections Use Wire Rated for at Least 90°C (194°F)


OUTPUT

(RED) Vo+ ●

(BLUE) Vo- ●

MADE IN CHINA

S/N:X1-2023XXXXXX

■ Package Information

Brown box: 313*64*40mm; Carton: 355*330*195mm;Quantity: 20pcs/carton; G.W:16kgs/carton.

Note:

AC Input Cord UL SJTW #18AWG 3*0.82mm², ØD: 7.8mm; Green: Ground, Black: L, White: N

DC Output Cord UL SJTW #18AWG 2*0.82mm², ØD: 7.35mm; Red: V+, Blue: V-