

SPECIFICATION

HTJ Series

Phase Dimming LED DRIVER

MODEL NO.: KS-40AW-XX#

DESIGN NO.: KS40W

VERSION NO.: 001



■ Features

40W Phase Dimming LED DRIVER

- Universal AC input voltage 100-277VAC
- Dimming Range:0-100%
- High power factor, $PF \geq 0.95$
- Single channel & constant voltage mode and PWM style output
- Protection: OCP, OVP, SCP, OTP
- TRIAC dimming
- Compatible with Forward phase, Reverse phase, Triac, MLV, ELV Dimmers
- Flicker free
- 5 years warranty
- IP65 IP67 Rated Enclosure for Indoor and Outdoor Use
- Available with or without integrated Junction Box
- UL/cUL, RoHS, CE, ENEC, GS, Class P, Type HL Approved

12/24/36/48VDC**DIM DOWN TO 0.1%****FC C E CLASS P CLASS 2 RoHS**

Description

KS-40AW HTJ Series is one 40W LED variable AC-DC driver, with constant voltage output design as the main characteristics. This HTJ 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.

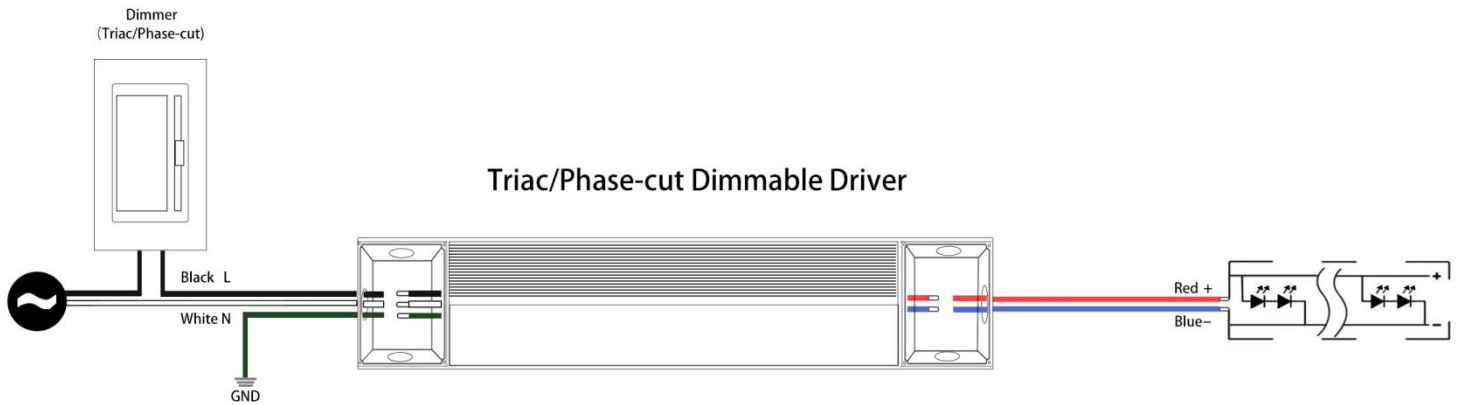
Warning

The dimming product is only suitable for direct drive LEDs. In the dimming state, the dim+ dim- ports are PWM output. If there is a circuit drive LED or load with capacitance inside the LED, it is not suitable for this dimming power supply.

■ Specification

MODEL		■KS-40AW-12T	□KS-40AW-24T	□KS-40AW-36T	□KS-40AW-48T	
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%/115VC,230VAC; @ load ≥75%/277VAC)			
	Efficiency	Vin: 115VAC	≥80.78%	≥80.68%	≥81.18%	≥81.68%
		Vin: 230VAC	≥83.42%	≥83.4%	≥83.9%	≥84.4%
	AC current		0.5A			
	Inrush current		Cold start 75A(width=350us measured at 50% I peak)/230Vac			
	Leakage current		< 1 m A			
No load/ standby power consumption		< 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					

■ Dimming Connect Drawing

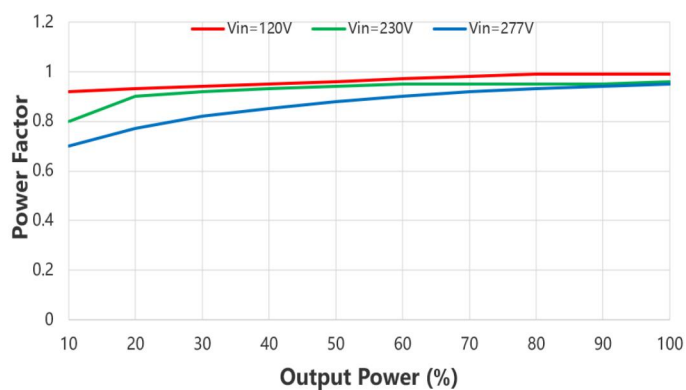


Warning:

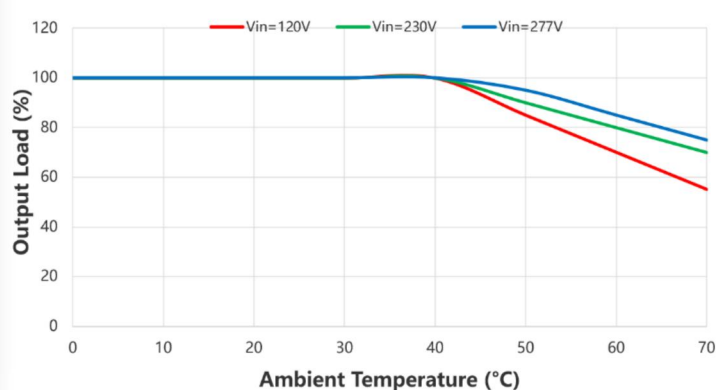
- ※ This driver should be installed by qualified and professional person;
- ※ Suitable for indoor use without direct sunlight exposure; Good ventilation are need;
- ※ Ensure that wiring is correct before test in order to avoid light damage;
- ※ If driver cannot work normally, don't maintain privately;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

■ Relationship diagrams

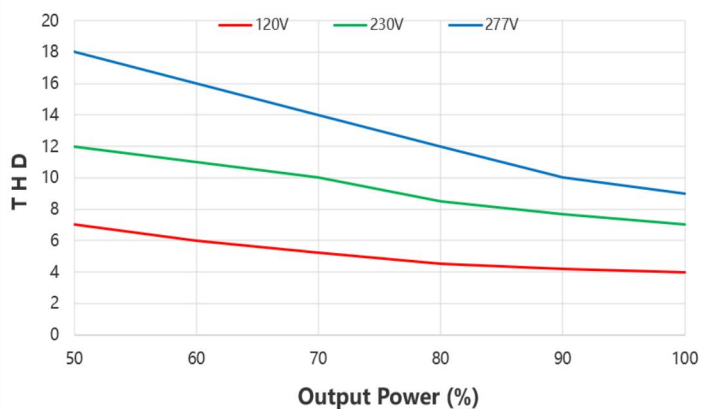
Power Factor - Output Power Curve



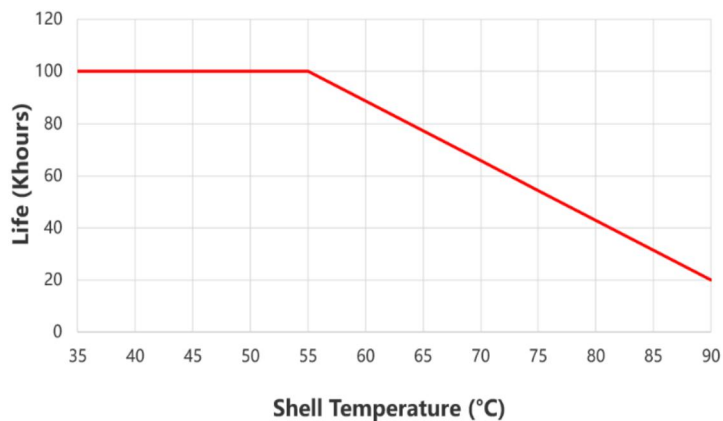
Output Load - Ambient Temperature Curve



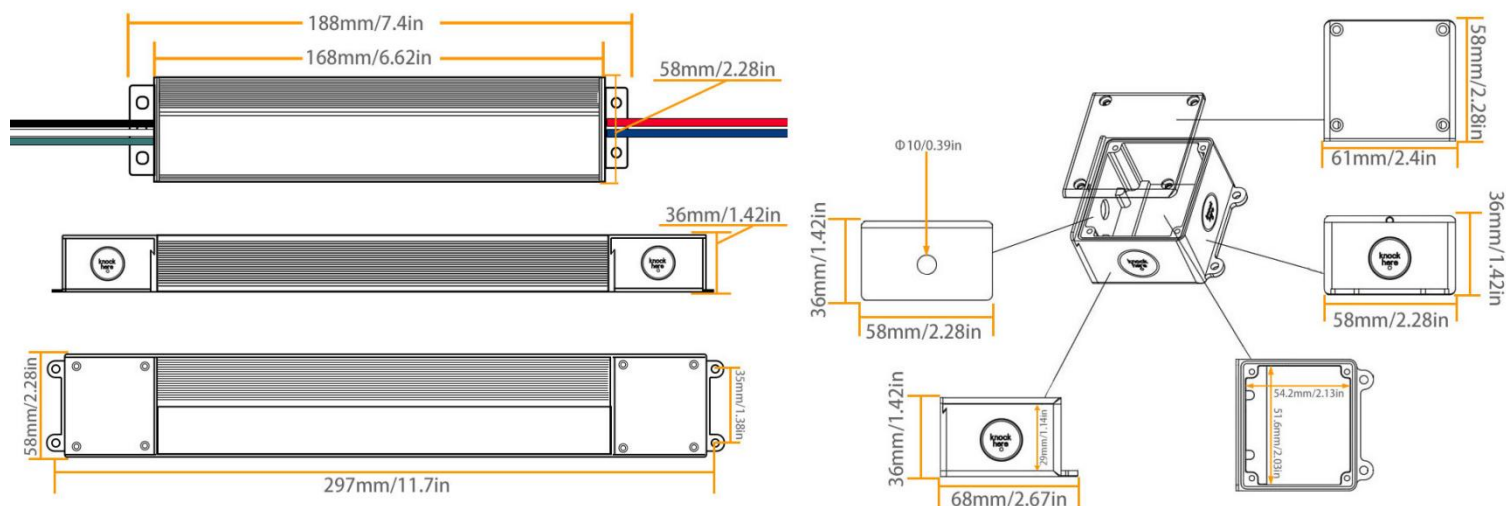
THD - Output Power Curve



Life - Shell Temperature Curve



Mechanical Specification & Label


KSPOWER

INPUT

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

Class 2 LED Driver (Phase Dimming)

for Forward phase and Reverse phase, ELV, MLV and Triac Dimmers

Constant Voltage

MODEL: KS-60AW-12T

INPUT: 100-277V~,0.82A max,50/60Hz,PF≥0.95

OUTPUT: 12V=5.0A,60W

Manufacturer: Shenzhen Keysun Technology Limited



Class P TYPE HL RoHS SELV

CONFORMS UL cUL 8750 CONFORMS FCC

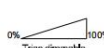
CONFORMS CAN/CSA-C22.2 NO.250.13

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

Small box: 313*64*40mm; Carton: 355*330*195mm; Quantity:20pcs/CTN; G.W:18KGS/CTN

Note:

AC Input Cord UL SJTW #18AWG 3*0.824mm², ØD: 7.8mm; Green: Ground, Black: L, White: N

DC Output Cord UL SJTW #18AWG 2*0.824mm², ØD: 7.35mm; Red: V+, Blue: V-