

SPECIFICATION

HPJ Series

5 in 1 Dimming LED DRIVER

MODEL NO.: KS-40AW-XX#

DESIGN NO.: KS40W

VERSION NO.: 001



■ Features

- 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
- Limited Power Source
- UL/cUL, RoHS, CE, ENEC, GS, Class P, Type HL Approved
- 5 in 1 dimming:(0-10V,1-10V,TRIAC,PWM,resistance)
- Compatible with Forward phase, Reverse phase, Triac, MLV, ELV Dimmers
- Flicker free
- Typical lifetime > 50000 hours
- 5 years warranty
- IP65 IP67 Rated Enclosure for Indoor and Outdoor Use

40W 5 in 1 dimming LED DRIVER

12/24/36/48VDC**FC CE CLASS P CLASS 2 RoHS**

Description

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

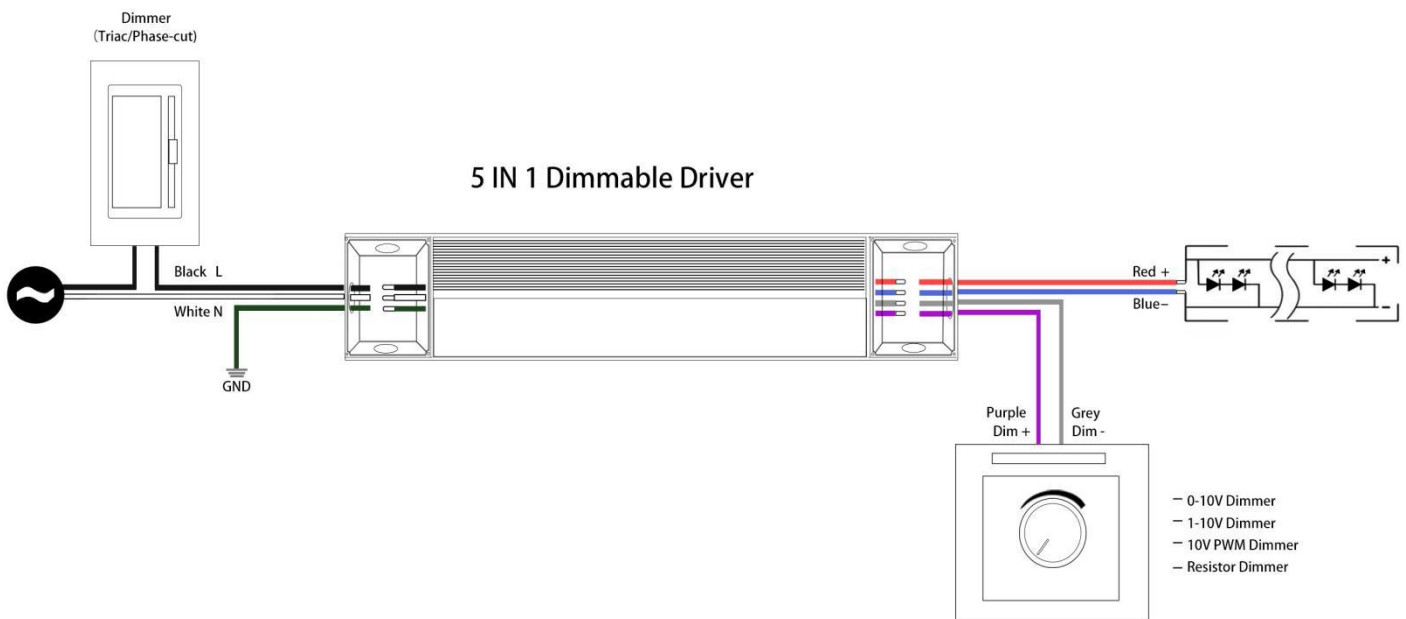
Warning

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-12P	 KS-40AW-24P	 KS-40AW-36P	 KS-40AW-48P
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	≥80.76%	≥80.68%	≥81.18%
		Vin: 230VAC	≥83.42%	≥83.4%	≥83.9%
	AC current	0.5A			
	Inrush current	Cold start 75A(width=350us measured at 50% I peak)/230Vac			
	Leakage current	< 1 mA			
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				
	EMC EMISSION:Confirms to FCC				

■ Dimming Connect Drawing

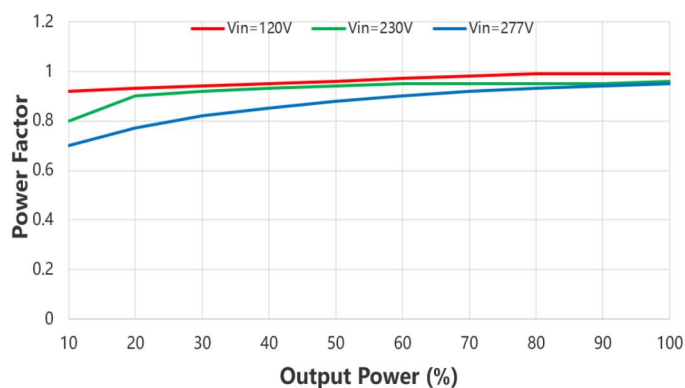


Warning:

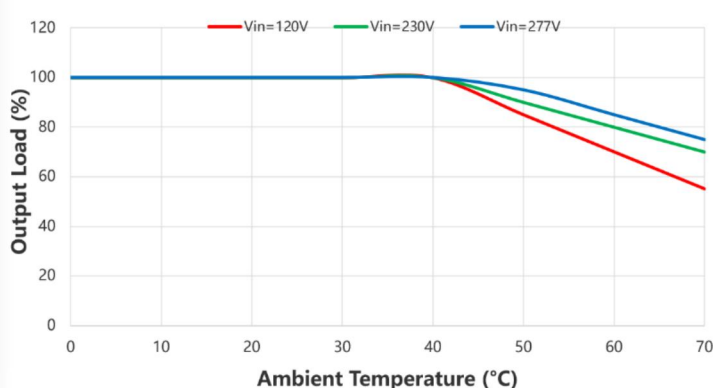
- * This driver should be installed by qualified and professional person;
- * Suitable for indoor use without direct sunlight exposure; Good ventilation are need;
- * Ensure that wiring is correct before test in order to avoid light damage;
- * If driver cannot work normally, don't maintain privately;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

■ Dimming Curve

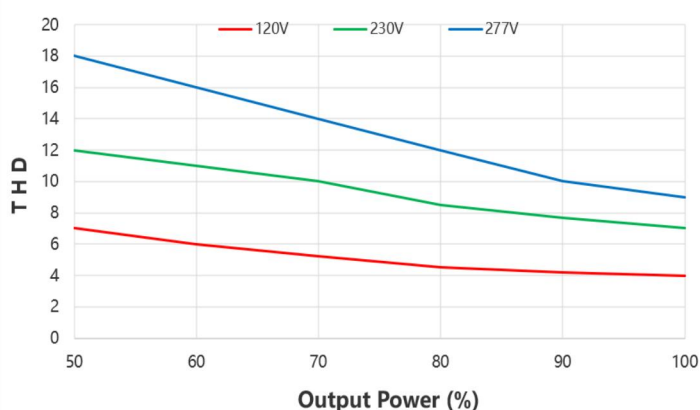
Power Factor - Output Power Curve



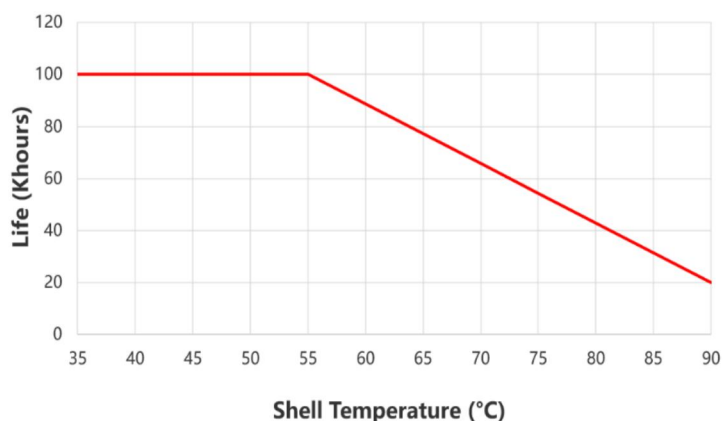
Output Load - Ambient Temperature Curve



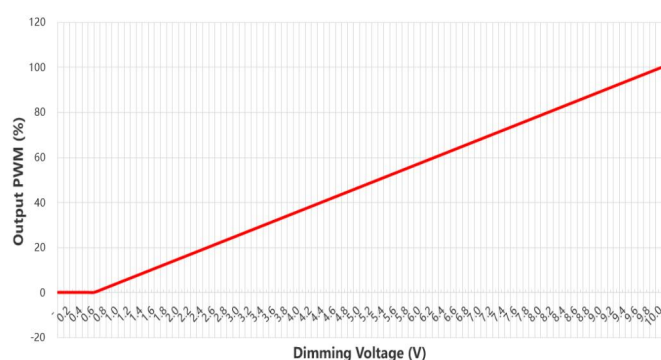
THD - Output Power Curve



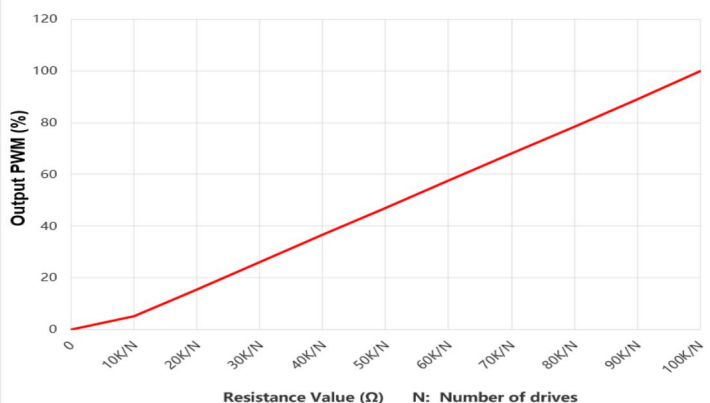
Life - Shell Temperature Curve



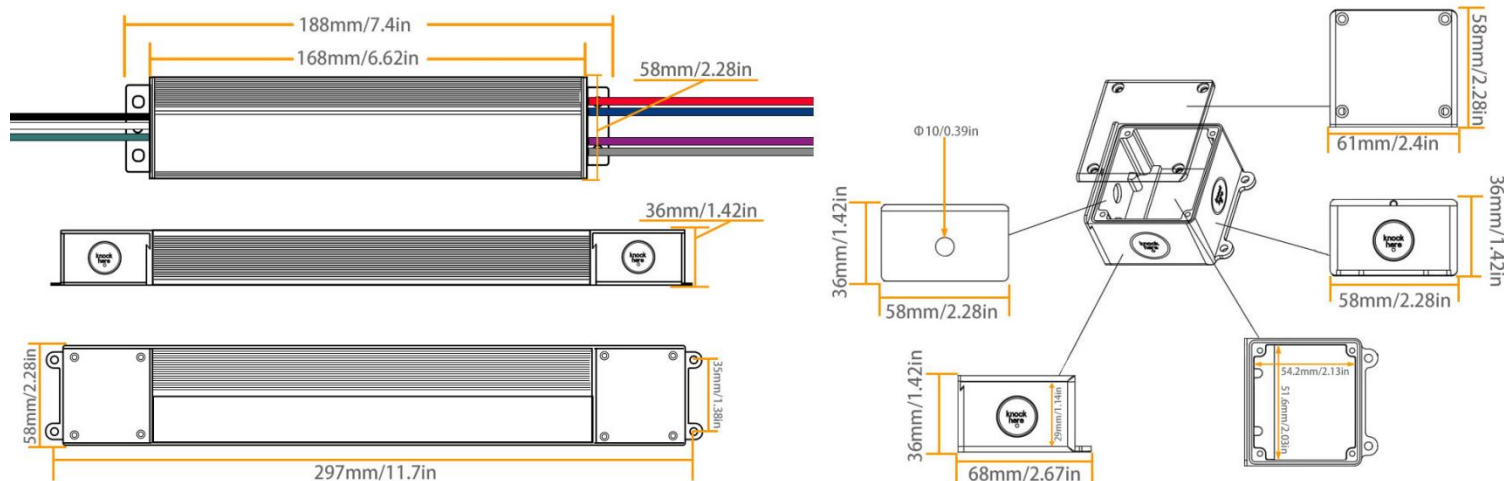
0-10V Dimming Curve



Resistance Dimming Curve



Mechanical Specification & Label


KSPOWER

INPUT

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

Class 2 LED Driver (5 In 1 Dimming)

for Triac/Phase-cut, 0-10V, 1-10V, Resistance, 10V PWM Dimmers
Constant Voltage

MODEL: KS-40AW-12P

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

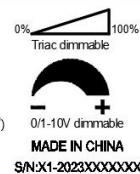
CONFORMS CAN/CSA-C22.2 NO.250.13

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 - ●
- (GRAY) DIM - ●
- (PURPLE) DIM + ●

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*0.82mm ² , ØD: 7.8mm ;Green: Ground, Black: L, White: N
DC Output Cord	UL SJTW #18AWG 2*0.82mm ² , ØD: 7.35mm; Red: V+, Blue: V-,
Signal Cord	UL SJTW #18AWG 2*0.82mm ² ; Gray Dim-, Purple Dim+