

SPECIFICATION

H Series Constant Voltage LED Driver

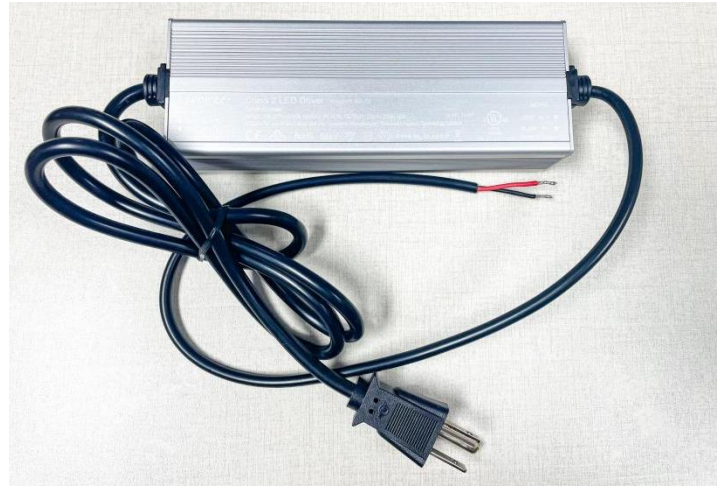
MODEL NO.: KS-40A-12

DESIGN NO.: ZH-40W

VERSION NO.: 001

■ FEATURES

- Universal AC input: 100-277VAC
- UL, cUL listed, Class 2, Class P, Type HL
- Built-in active PFC function, up to 0.98
- High efficiency : up to 88%
- Load: 10-100%
- Flicker-free
- constant voltage mode and PWM style output
- Protection: OCP, OVP, SCP, OTP
- Typical lifetime > 50000 hours
- 5 years warranty
- Available with or without integrated Junction Box
- Dry, damp, wet location indoor and outdoor use
- Suitable for LED lighting and moving sign applications



Sample is silver color
Optional Black and Silver Color



Class P

SELV IP65



■ DESCRIPTION

KS-40W H Series is one 40W LED variable AC-DC driver, with constant voltage output design as the main characteristics. This H series model can work at input voltage 100~277 VAC, and provide a variety of rated output voltage between 12V. It is created for many lighting applications including architectural, decorative and signage. 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.

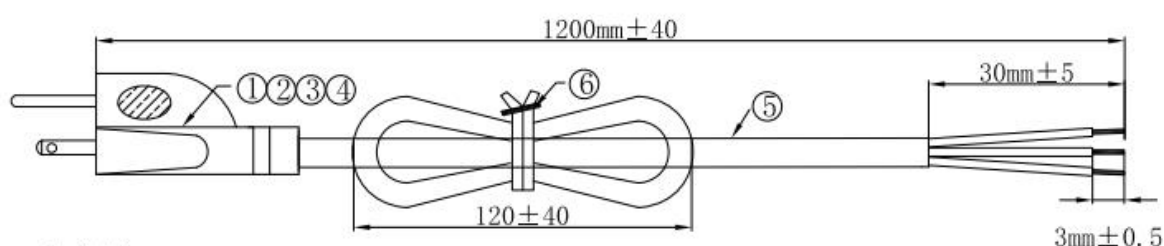
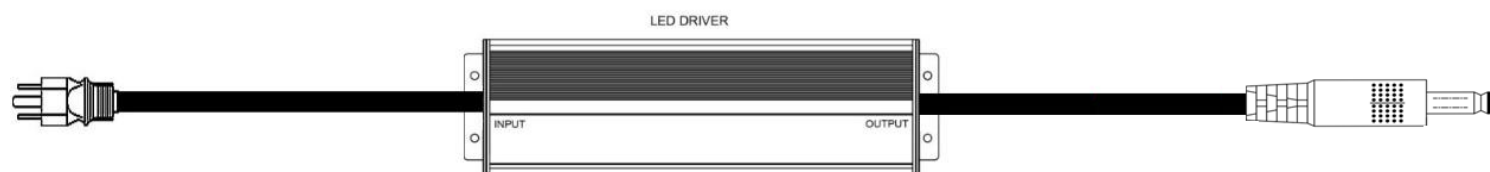
40W Constat Voltage Class 2 LED Driver **H-40W** Series

■ SPECIFICATION

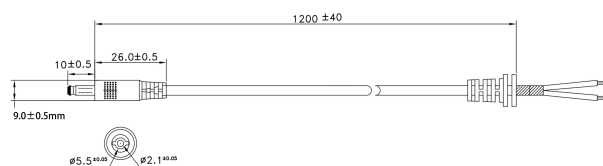
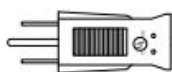
MODEL		■ KS-40A-12#	□ KS-40A-24#	□ KS-40A-36#	□ KS-40A-48#
OUTPUT	Output Voltage	12V	24V	36V	48V
	Rated current	3.33A	1.67 A	1.11A	0.83 A
	Rated power	40W	40W	40W	40W
	Ripple & Noise (max.)	200mVp-p	250mVp-p	250mVp-p	250mVp-p
	Voltage accuracy	±2.0%	±2.0%	±2.0%	±2.0%
	Linear adjustment rate	±0.5%	±0.5%	±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	≥ 88.01%	≥ 89.26%	≥ 89.76%
		Vin: 230VAC	≥ 89.2%	≥ 89.78%	≥ 90.28%
	AC current	0.55 A / 115VAC 0.28 A / 230VAC			
	Inrush current	Cold start 75A(width=350us measured at 50% I peak)/230Vac			
Protection	Leakage current	< 0.5 mA			
	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= -20 ~ +70℃ , load 50%. (High temperature 80℃ , 50% load for 24 hours)			
	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			
	Isolation resistance	I/P-O/P:100MΩ/500VDC/25℃/70%RH			
Others	EMC EMISSION	FCC Part 15 B			
	Net. Weight	0.84Kg			
	Size	188*58*36mm (L*W*H)			

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CONNECT DRAWING



印字内容:
E313344 (UL) SVT 3/C 18AWG(0.824mm²)
vw-1 105° C 300V C(UL) SVT 3/C
0.824mm²(18AWG) FT2 105° C 300V
XIEJIN



NOTE:

1. 线材: SVT 18# OD:6.3 黑色环保
2. 此款所有材料为环保材料

⑥		扎带	100MM黑色扎带	1PCS	
⑤		线材	SVT 18# OD:6.3 黑色环保	1200mm±40	
④		插头	50P PVC黑色环保胶料		
③		插头内架	美式三插内架		
②		端子	非极性单片	2PCS	
①		端子	4.75圆管端子	1PCS	
序号	物料料号	名称	规格型号	用量	备注

变更记录	④				单位: mm		核准		图号	
	③				0.0				客户P/N	1218412
	②				0.00		审核		客户	万创
	①				0.000		绘制		客户确认栏	
NO.	变更内容	责任人	变更日期	版本: A	品名: 1.2m/美规三插+尾部上锡		日期	2023-12-19		

Input cable: US 3-pin ac cable 1.2m ± 40mm, 3x0.824 mm³

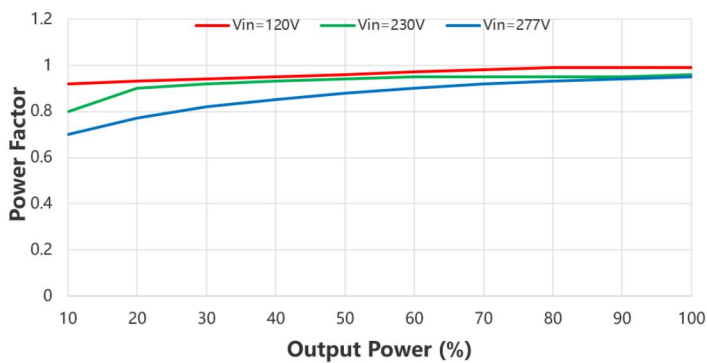
Output cable: 1185 18AWG OD3.5mm bare wire 1.2m ± 40mm, DC5.5*2.1*10mm.

INSTRUCTION

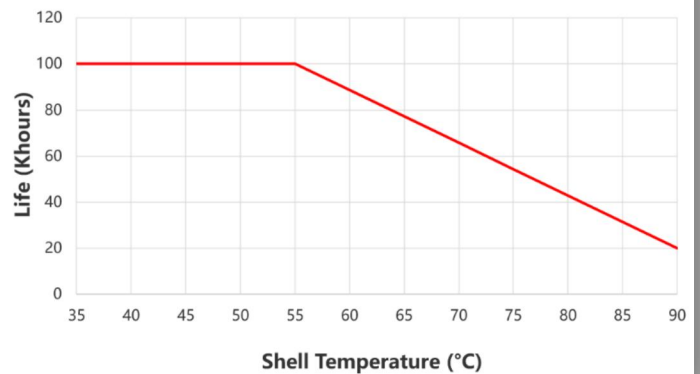
- 1) This driver should be installed by qualified and professional person;
- 2) Suitable for indoor use without direct sunlight exposure; Good ventilation are need;
- 3) Ensure that wiring is correct before test in order to avoid light damage;
- 4) If driver cannot work normally, don't maintain privately;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

PERFORMANCE CURVE

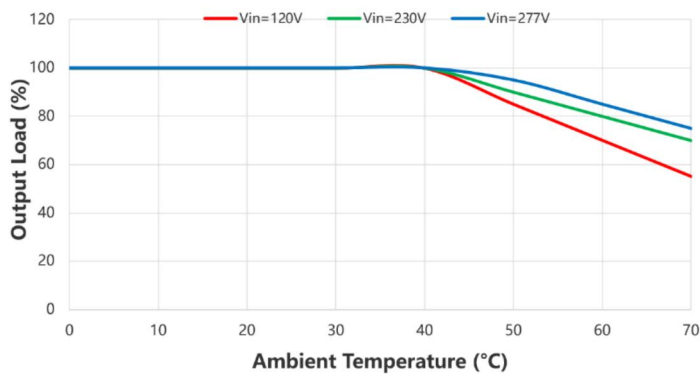
Power Factor - Output Power Curve



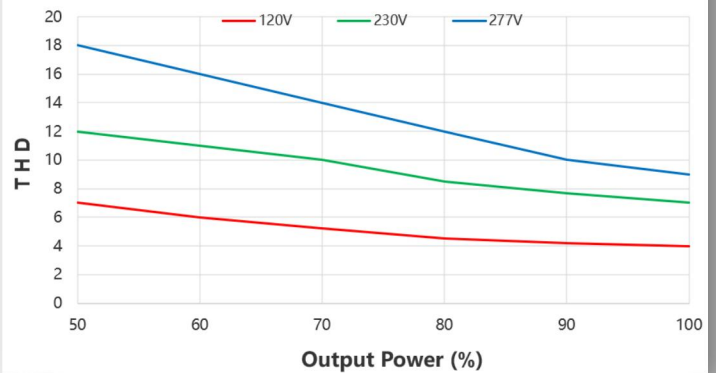
Life - Shell Temperature Curve



Output Load - Ambient Temperature Curve



THD - Output Power Curve

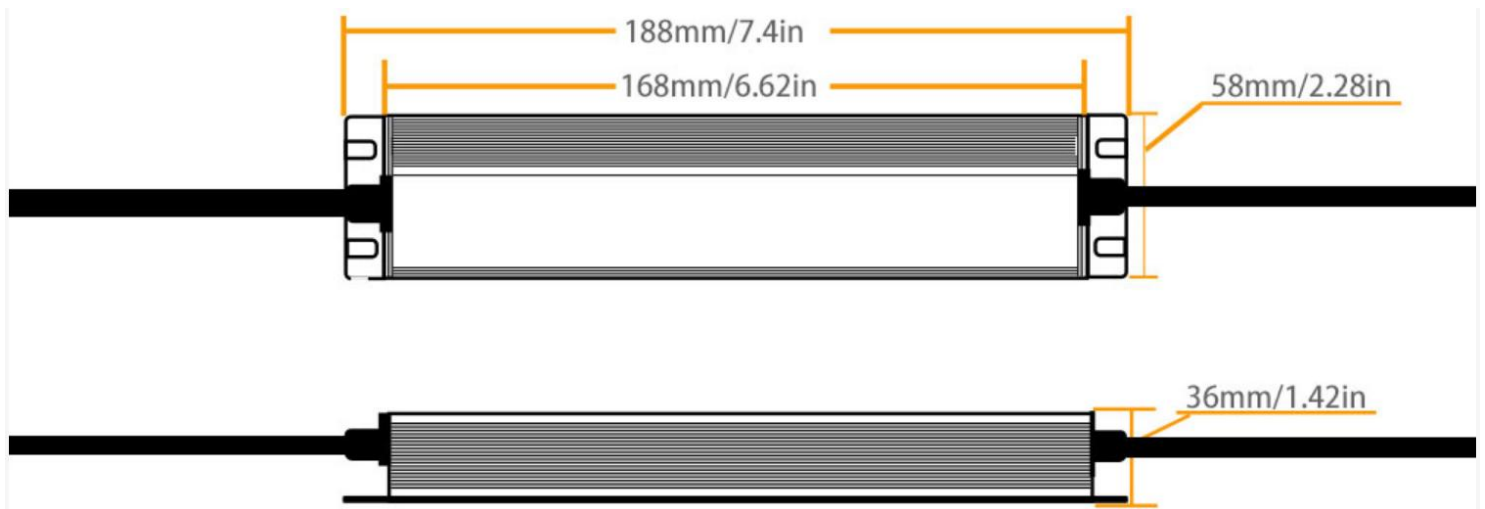


40W Constat Voltage Class 2 LED Driver **H-40W** Series

■ LABEL

KSPOWE Class 2 LED Driver Model: KS-40A-12		Ta: 50°C, Tc: 90°C		OUTPUT	
Constant Voltage		INPUT: 100-277V~, 0.55A, 50/60Hz, PF ≥ 0.95 I OUTPUT: 12V \pm 3.33A, 40W		(RED) Vo + ●	
INPUT		Suitable for use in Dry,Damp and Wet Locations Manufacturer: Shenzhen Keysun Technology Limited		(BLACK) Vo - ●	
● AC L (BROWN)		CE		cULus	
● AC N (BLUE)		RoHS		LISTED	
⊕ (GREEN / YELLOW)		SELV		E497389	
		110		S/N: E-23111401	
		TYPE HL Class P		MADE IN CHINA	

■ MECHANICAL SPECIFICATION



■ PACKAGE

Small yellow box: 199*90*75mm; Carton box: 495*420*170mm; Quantity: 20 pcs/carton.