

SPECIFICATION

HTJ Series

Phase Dimming LED DRIVER

MODEL NO.: KS-300AW-48T#

DESIGN NO.: KS320W

VERSION NO.: 001



■ Features

- Universal AC input voltage 100-277VAC
- Efficiency up to 90%
- 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

300W Phase Dimming LED DRIVER

48VDC



CLASS P TYPE HL RoHS

Description

KS-300AW HTJ Series is one 320W 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 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.

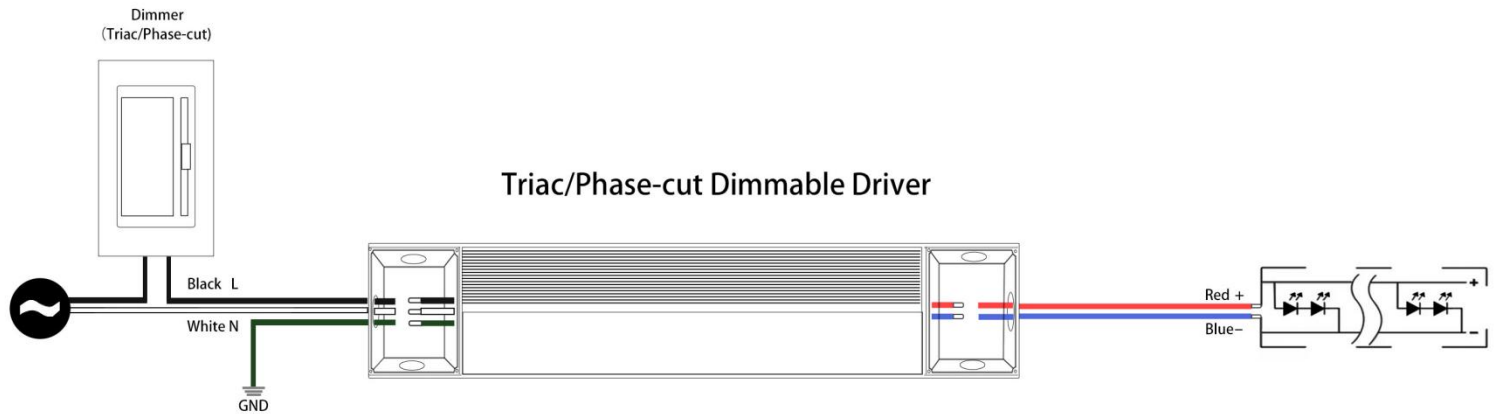
Warning

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-300AW-24#	 KS-300AW-36#	 KS-300AW-48#
OUTPUT	Output Voltage		24V	36V	48V
	Rated current		12.5A	8.33A	6.25A
	Rated power		300W	300W	300W
	Ripple & Noise (max.)		250mVp-p	250mVp-p	250mVp-p
	Voltage accuracy		±2.0%	±2.0%	±2.0%
	Linear adjustment rate		±0.5%	±0.5%	±0.5%
	Load adjustment rate		±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	≥91.56%	≥92.06%	≥92.56%
		Vin: 230VAC	≥94.63%	≥95.13%	≥95.63%
	AC current		4A		
	Inrush current		Cold start 75A(width=350us measured at 50% I peak)/230Vac		
	Leakage current		< 1 m A		
No load/ standby power consumption		< 4.5W			
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		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

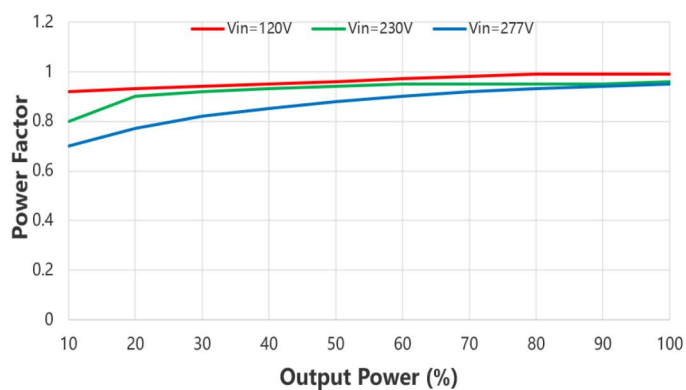


Warning:

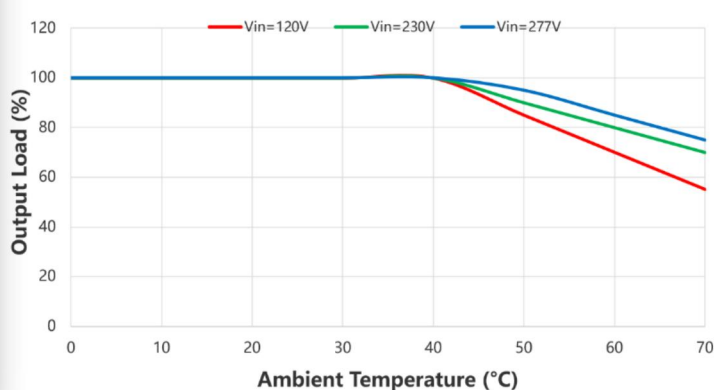
- ※ This driver should be installed by qualified and professional person;
- ※ Suitable for indoor use without direct sunlight exposure; Good ventilation are need;
- ※ Ensure that wiring is correct before test in order to avoid light damage;
- ※ If driver cannot work normally, don't maintain privately;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

■ Relationship diagrams

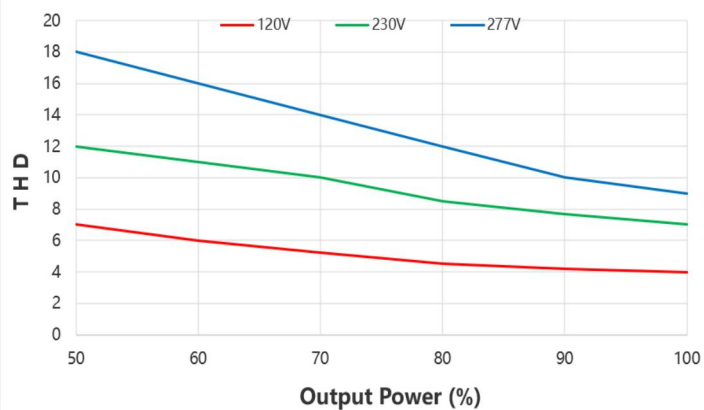
Power Factor - Output Power Curve



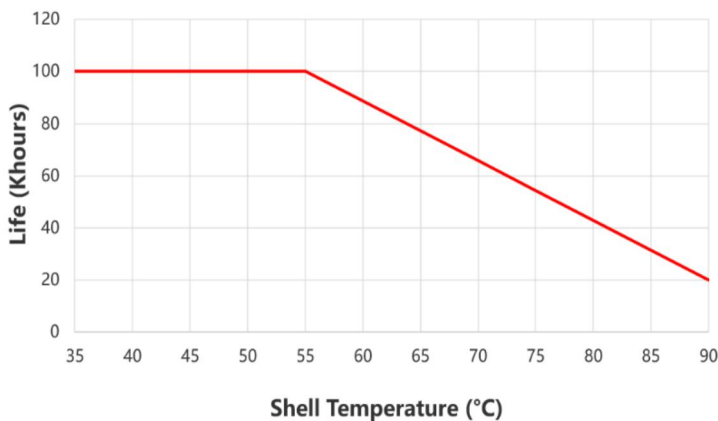
Output Load - Ambient Temperature Curve



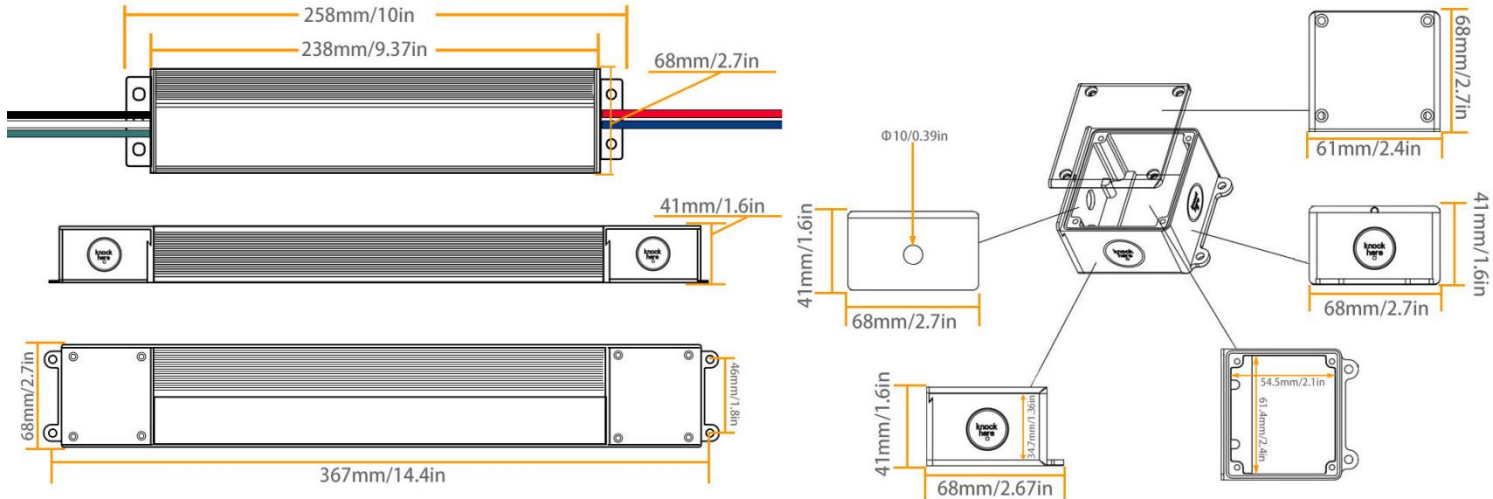
THD - Output Power Curve



Life - Shell Temperature Curve



■ Mechanical Specification & Label



KSPower INPUT ● AC L (BLACK) ● AC N (WHITE) ⊕ (GREEN / YELLOW)	Dimmable LED Driver (Phase Dimming) for Forward phase and Reverse phase, ELV, MLV and Triac Dimmers Constant Voltage MODEL: KS-300AW-48T INPUT: 100-277V~, 3.0A max, 50/60Hz, PF≥0.95 OUTPUT: 48V= 6.25A, 300W 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:C1-2023X00000X
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■ Package Information

Small box: 382*74*45mm; Carton:400*400*165mm; Quantity: 15pcs/CTN; G.W:22KGS/CTN

Note:

AC Input Cord	UL SJTW #18AWG 3*0.824mm ² , ØD: 7.8mm; Green: Ground, Black: L, White: N
DC Output Cord	UL SJTW #14AWG 2*2.08mm ² , ØD: 8.7mm; Red: V+, Blue: V-