

SPECIFICATION

NT series

Phase dimming Class 2 Outdoor LED Driver

MODEL NO.: ZH-DV96U24-KT

DESIGN NO.: ZH-96W

VERSION NO.: 001



■ Features

- Input voltage 100-120VAC& 200-240VAC
- Color: Black and White
- Constant voltage mode
- Protection: SCP,OCP,OTP,OVP
- Dimming range: 0-100%
- Load: 5%-100%
- UL/cUL, FCC, Class 2, Class P
- Flicker-free standard
- PWM output, does not change the color index
- Wiring Compartments with Knock-Outs for Clean and Easy Installation
- NEMA 3R Rated Enclosure for Indoor and Outdoor Use
- Compatible with Forward phase, Reverse phase, Triac, MLV, ELV Dimmers
- Applications : LED lighting and LED signs
- 5 years warranty

Outdoor Triac Dim LED DRIVER

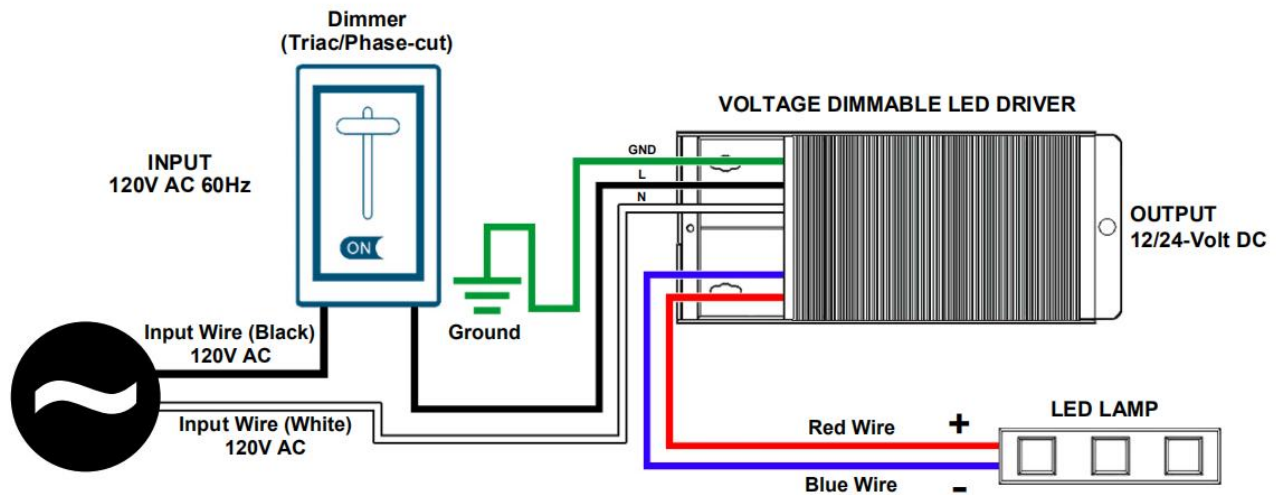
24VDC**DIM DOWN TO 0.1%****CLASS P CLASS 2****RoHS**
Compliant**SELV**

ZH-DV96U24-KT The KSPOWER - NT series phase cut dimmable led driver 96 Watt is one constant voltage solution, single channel, compatible with most AC wall dimmers including Lutron, Leviton and most other household dimmers. The class 2 dimming transformer use low profile metal aluminum case, dry and damp, makes the dimmable led drivers solutions for LED strips, LED sign, billboard and landscape lighting. Featuring PWM output and metal aluminum case NEMA 3R environment protection rated for indoor or outdoor use, the phase dim led driver provide 5 years warranty and outstanding led dimming performance.

■ Specification

MODEL		■ ZH-DV96U24-KT	
OUTPUT	Output Voltage	24V	
	Rated current	4A	
	Rated power	96W	
	Ripple & Noise (max.)	250mVp-p	
	Voltage Tolerance	±0.5V	
	Voltage Regulation	±0.5%	
	Load Regulation	±1%	
INPUT	Voltage range	90 ~ 130VAC&200~240VAC	
	Frequency range	47 ~ 63Hz	
	Power factor	PF ≥ 0.95	
	THD (Typ.) @ full load	THD < 20%	
	Efficiency	Vin: 110VAC	≥ 88%
		Vin: 240VAC	≥ 88%
	AC current	1.1A	
	Inrush current	14A, 50%, 780us	
	Leakage current	<0.50mA	
Protection	Short Circuit	shut down o/p voltage, re-power on to recover after fault condition removed	
	Over temperature	Turn off the output voltage, restart and resume	
	Over Loading	≤120% Hiccup mode,recovers automatically after fault condition is removed	
Environment	Working Temp	-40~+60°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)	
	Vibration	10~500Hz, 5G 12min./1 cycle, period for 72 min. each along X,Y,Z axes	
Safety& EMC	Safety standards	UL8750 Class 2	
	Withstand voltage	I/P-O/P:1.88KVac	
	Isolation resistance	I/P-O/P:100MΩ/500VDC/25°C/70%RH	
	EMC EMISSION	Comforms to FCC Part 15 B	

■ Dimming Connect Drawing



WARNING

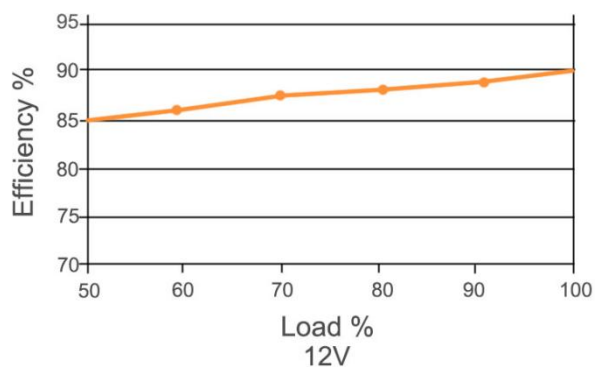
- ※ The dimming product is only suitable for direct drive LEDs. If there is a circuit drive LED or load with capacitance inside the LED, it is not suitable for this dimming power supply.
- ※ Do not reverse polarity.
- ※ Risk of Fire. Consult a qualified electrician for installation
- ※ Risk of Electric Shock. Mount the unit at a height greater than 1 foot from the ground surface.

DIMMING OPERATION

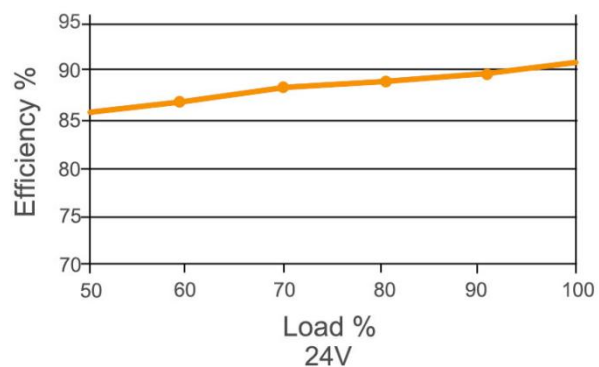
- ★ Compatible with leading edge and trailing edge/Forward Phase Triac Dimmers
- ★ Try to use dimmers with a capacity at least 2.5 times as the output power of the driver.
- ★ For forward phase and triac dimmers. See Compatible Dimmers list below.

Relationship diagrams

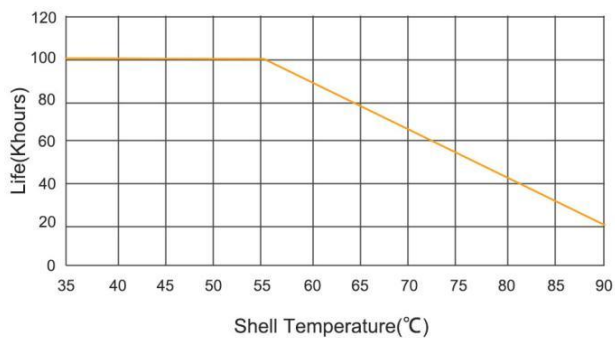
Efficiency vs Load



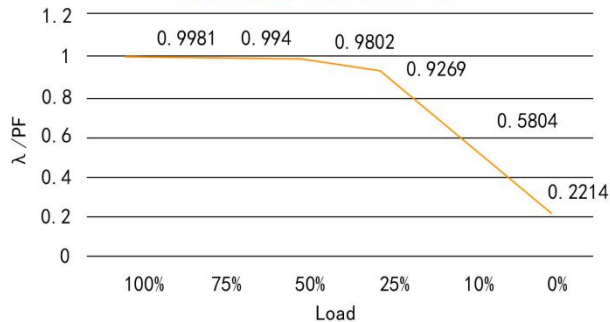
Efficiency vs Load



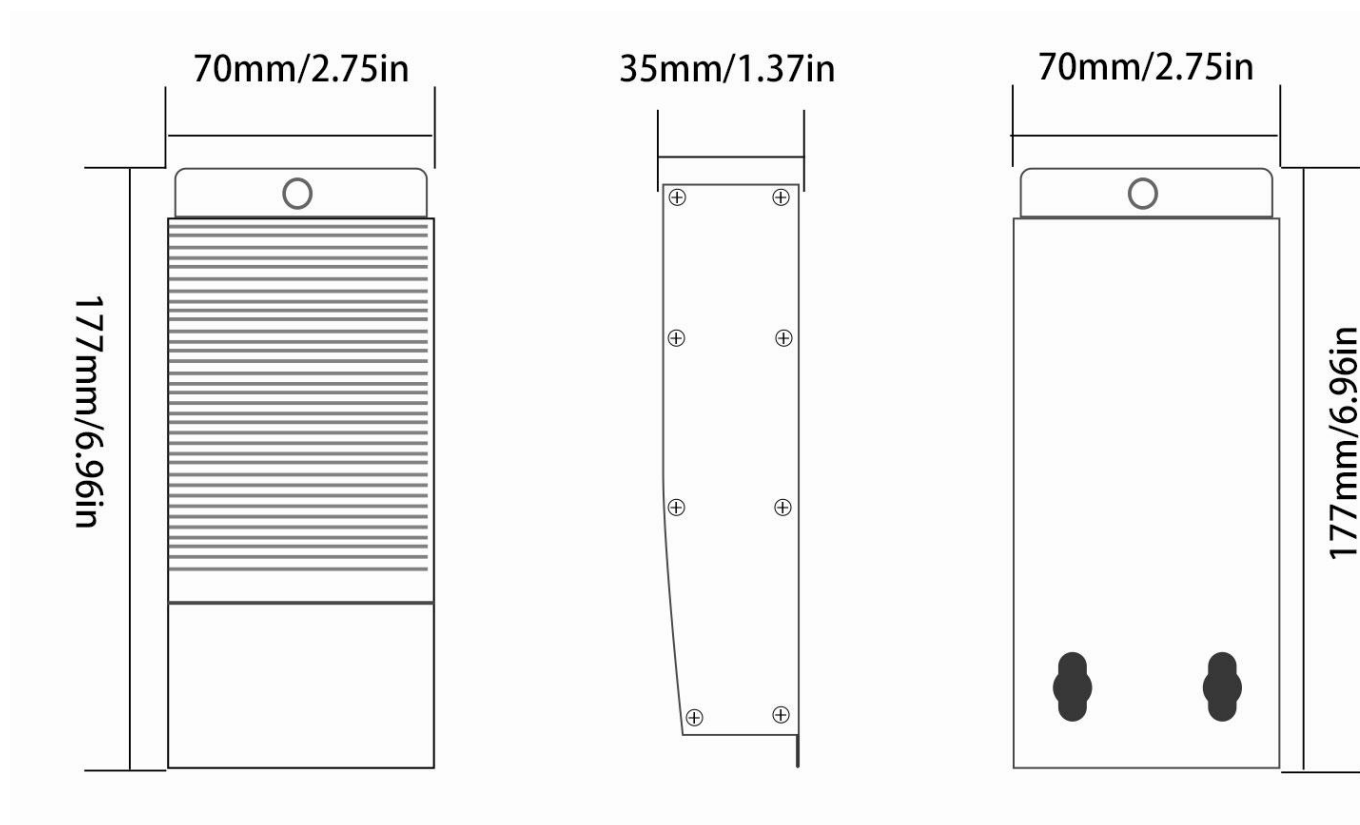
Life-Shell Temperature Curve



120Vac/60 Hz PF Curve



■ Mechanical Specification & Label



OUTPUT ● LED + Red ● LED - Blue	Dimmer: (Triac/Phase-cut) Class P UL Class 2 and CUL LED Class 2	cULus LISTED E497389	Model:ZH-DV96U24-KT OUTPUT:24VDC 4A SEC:96W EFFICIENCY: >88% PF: >0.95 S/N:X1-2023XXXXXXX MADE IN CHINA Risk of Electric Shock followed by "see accompanying documents"
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■ Package Information

Small box: 78*45*229mm; Carton: 420*250*245mm; Quantity: 25 pcs/ctn; G.W: 19kg/ctn.