


Certified LED Lights®

Product Data Sheet
KVF Series drivers



Class 2
Class P

Product Overview

The VPA Series Constant Voltage Drivers with a built-in J-box are high-performance power supplies designed to provide reliable, efficient, and flicker-free DC power for LED lighting systems. Designed for constant voltage operation, these Phase forward/leading, ELV, Triac, MLV, 0-10V, PMW dimmable drivers deliver continuous, smooth, full-range dimming without altering LED CRI.

Available in 96W, 192W, and 288W versions, these drivers ensure stable 24V output for a wide range of indoor and outdoor applications.

The standard warranty period is seven years from the date of purchase

Product Benefits:

- * Stable 24V output ensures consistent LED brightness
- * Compact, durable aluminum housing for excellent heat dissipation
- * Long lifespan and low maintenance cost
- * Easy installation for both indoor and outdoor environment

Applications

Residential & Commercial Dimming

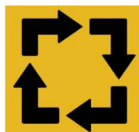
Applications Single-Color

Warm Dim LED Tape Lights Multi-color LEDs (via LED controller)

Smart Home & Intelligent Lighting Systems



General area



Perimeter



Landscaping



Pathways

Main Features

- * UL Listed
- * Constant Voltage Driver
- * Output Power Options: 96W (4A), 192W (8A), 288W (12A)
- * Universal Input: 100-277VAC
- * Built-in active PFC
- * Power Factor: up to 0.98 @120V +0.97 @277V
- * Efficiency: up to 91% - THD at full load is < 20%
- * Protection: short circuit/over load/over heat
- * Damp locations
- * Flicker-free
- * Dimming options: Triac/Phase/ELV/MLV/0-10V/PWM
- * Safety standard: UL8750+UL1310
- * Working temp: -40°F to 104°F
- * Over temperature : 212 F +/- 10% shut down O/P voltage, automatic recovery after cooling
- * Working humidity: 20-95% non condensing

Product Warranty



Highlights and Certifications



UL listed



Triac / Phase Dimmable



FCC Part 15, class B



ELV and MLV Dimmable, PMW Dimmable



Wet Location



Potentionmeter Dimmable

Class P

Class 2



1-10V Dimmable

Key Specifications

- * UL Listed
- * Complies with FCC
- * Wet location

Electrical and Safety Features

- * Constant 24V DC Output for stable LED performance
- * Comprehensive Protections: Over-voltage, over-current, short-circuit, and over-temperature
- * Low Ripple and Noise for superior lighting quality
- * Dimming Compatibility: Triac, ELV, Phase and MLV

Mechanical and Environmental

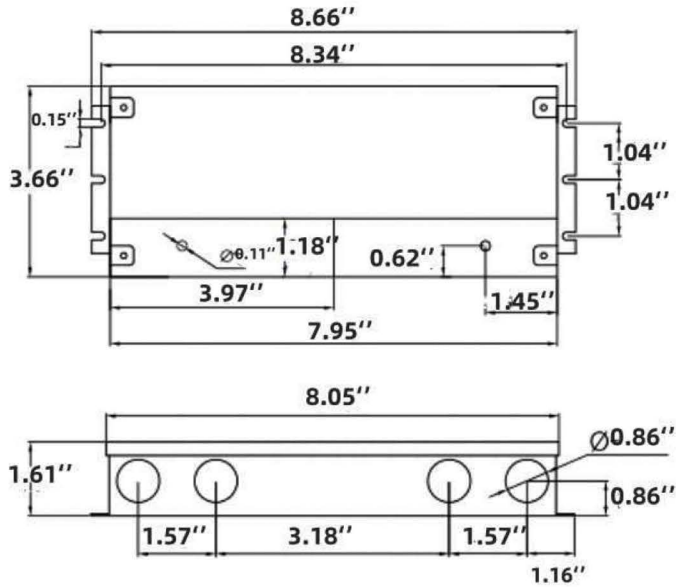
- * Enclosure Rating: Wet Location – suitable for indoor & outdoor use
- * Housing Material: Aluminum casing for efficient heat dissipation
- * Operating Temperature: -40°F to +104°F
- * Cooling Method: Convection cooled – no fan noise
- * Mounting Options: Surface or wall mount

Ordering Guide

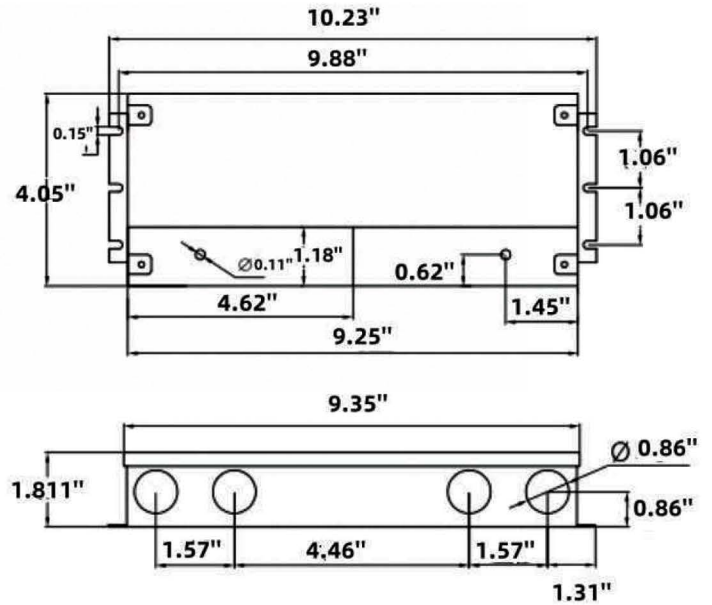
PART #	Voltage	Output Current	Output Power	Voltage Range	Triac / Phase Dimmable	ELV, MLV Dimmable	ELV, MLV, PMW Dimmable	1-10V Dimmable	Potentionmeter Dimmable
VPA-096-24	24	4A	96	100-277 VAC, 50/60Hz	YES	YES	YES	YES	YES
VPA-192-24	24	8A	192	100-277 VAC, 50/60Hz	YES	YES	YES	YES	YES
VPA-288-24	24	12A	288	100-277 VAC, 50/60Hz	YES	YES	YES	YES	YES

Dimensions

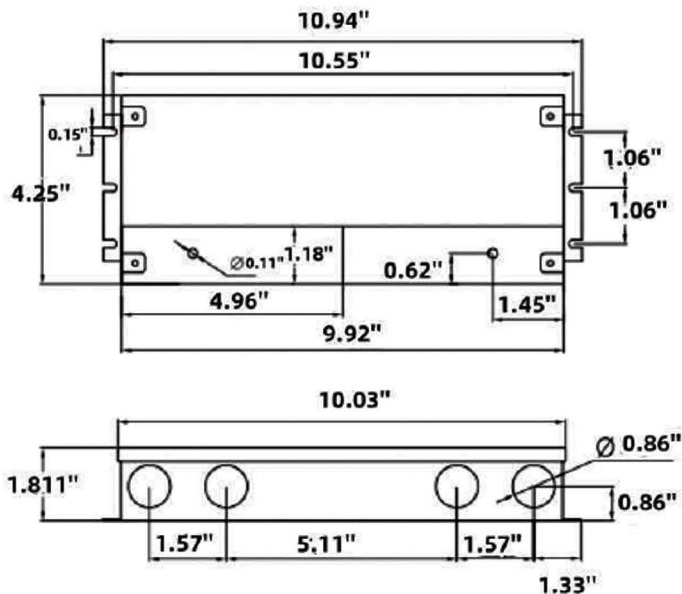
96W



192W

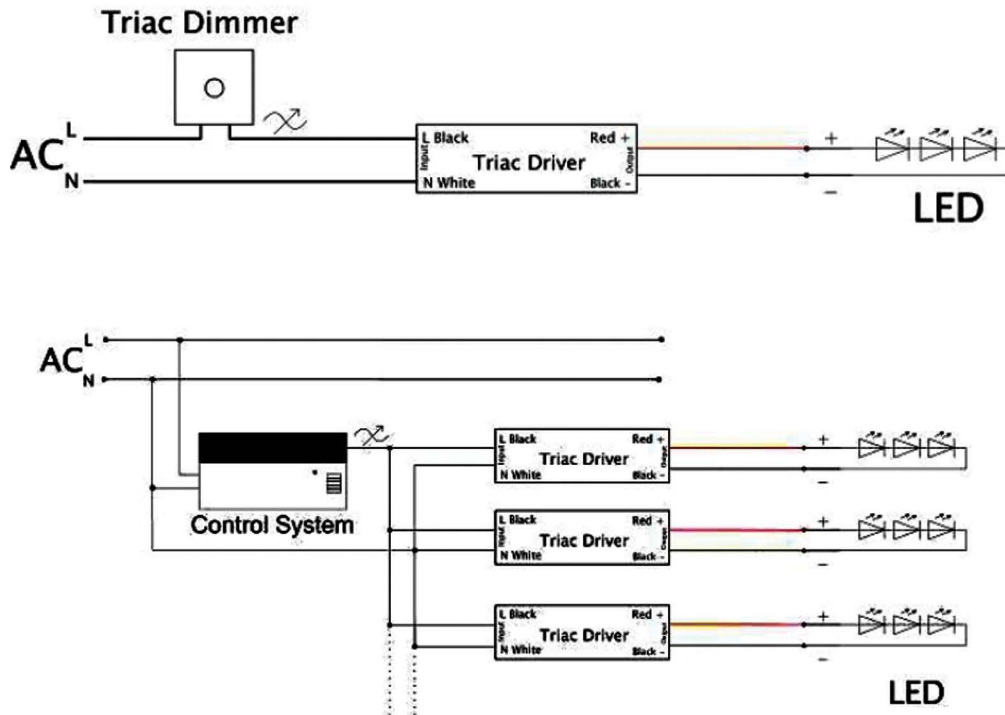


288W

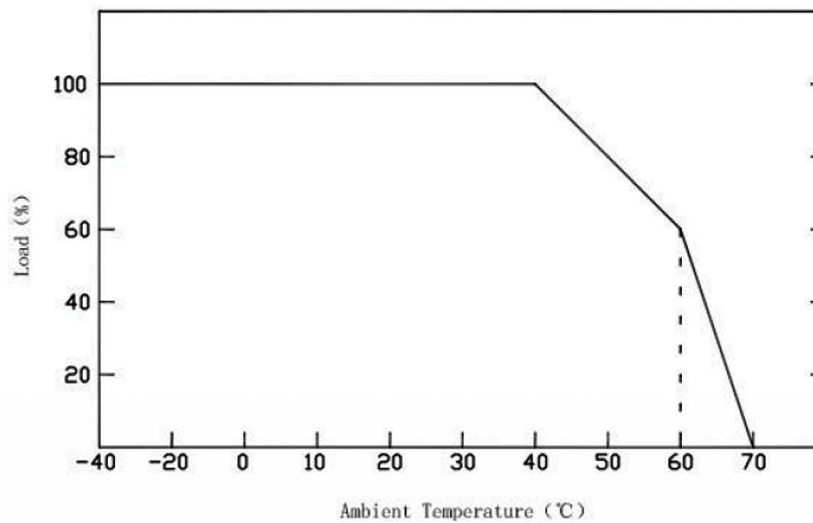


Wiring Diagram

Triac/Phase/ELV/MLV dimming:



Wiring Diagram



*To ensure the driver's long life, please refer to the Derating Curve and derate according to the ambient temperature.