



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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**25W Triac Dimmable Constant Current LED Driver  
PDA025H Residential LED Driver**



**Features**

- OVP, OTP, Short/Open Circuit Protection
- Brownout Protection
- Class 2 Output per UL1310
- IP66 Rated
- $\geq 0.9$  Power Factor Correction & THD <20%
- 108-132VAC Input Voltage Range

**Applications**

- Down Lights
- Area Lights
- Architectural lighting

**Safety Approvals**

- cUL/UL8750
- Class 2 Output per UL1310

**Mechanical Characteristics**

- Length: 80mm (in)
- Width: 78mm (3.07in)
- Height: 25.4mm (1in)
- Weight: 170g ( 6oz)

**Output Specifications**

Model	DC Output Voltage			Output Current	Output Power
	Min.	Typ.	Max.		
PDA025H-350A-H <sup>(1)</sup>	45V	-	72V	350mA	25W
PDA025H-520A-H	30V	-	48V	520mA	25W
PDA025H-700A-H	24V	-	36V	700mA	25W
PDA025H-1A0A-H	16V	-	24V	1050mA	25W

Notes (1): Non Class 2 Output per UL1310.

Phihong is not responsible for any error, and reserves the right to make changes without notice. Please visit our website at [www.phihong.com](http://www.phihong.com) for the most up-to-date specifications and contact information.

**INPUT:**

**AC Input Voltage Range**  
108~132VAC

**AC Input Voltage Rating**  
120VAC

**AC Input Frequency**  
47~63 Hz

**Maximum Input Current**  
≤ 0.5A

**Leakage Current**  
0.5mA maximum

**Power Factor**  
≥ 0.9

**THD**  
<20%

**OUTPUT:**

**Output Current Ripple**  
≤30%

**Efficiency**

Model	Typical Efficiency
PDA025H-350A	84%
PDA025H-520A	83%
PDA025H-700A	83%
PDA025H-1A0A	82%

**Environmental:**

**Temperature**

Operation Tc            -20 to 90°C  
 Non-operation        -40 to +85°C  
 Operating Humidity    10 to 95%

**EMC**

FCC 55047 Part 15

**Immunity**

IEC61000-4-2  
 IEC61000-4-5

**Dielectric Withstand (Hi-pot)**

Primary to secondary: 3000VAC for 1 minute, 10mA

**Over Temperature Protection**

Auto-recovery

**Short-Circuit Protection**

Auto Restart

**Output Over-voltage Protection**

Auto Recovery

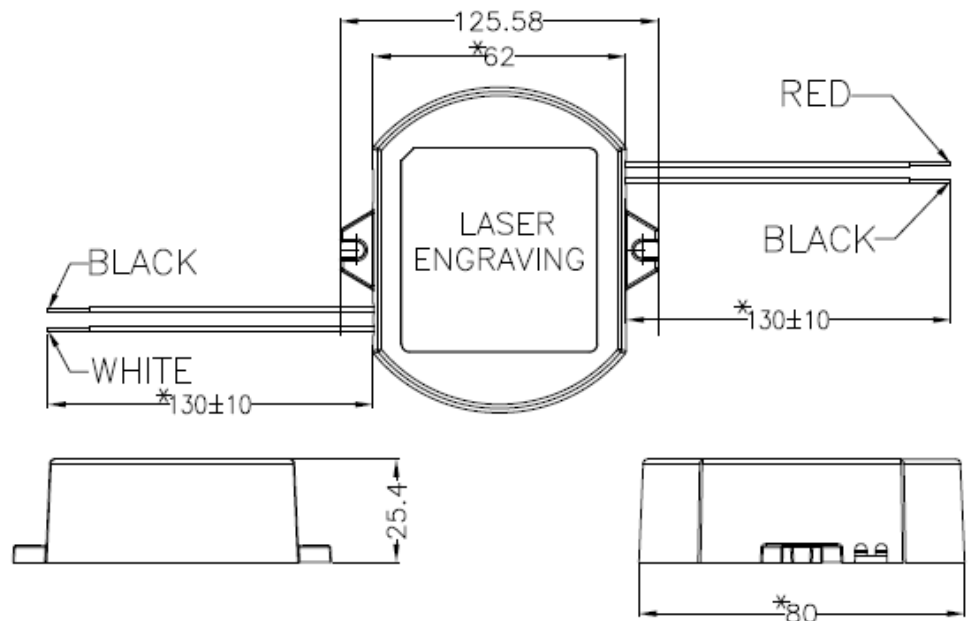
**Input / Output Connections**

Position	Terminal Color	Specification	Length
Input	Black	AWG18 Stranded Wire	170mm
	White	AWG18 Stranded Wire	170mm
Output	Red	AWG18 Stranded Wire	170mm
	Black	AWG18 Stranded Wire	170mm

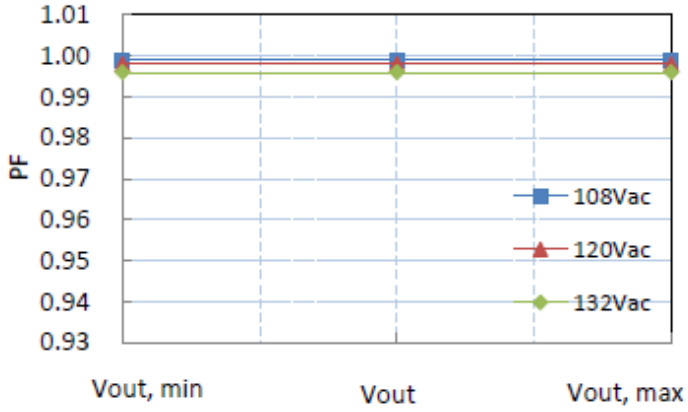
**Warranty**

3 years

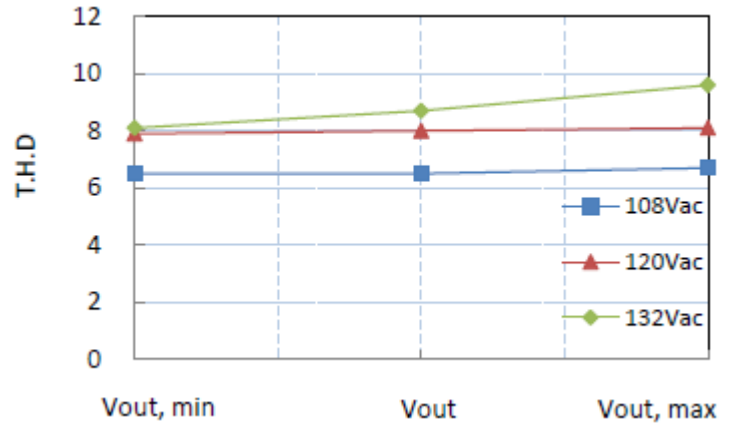
**Dimension Diagram unit: mm**



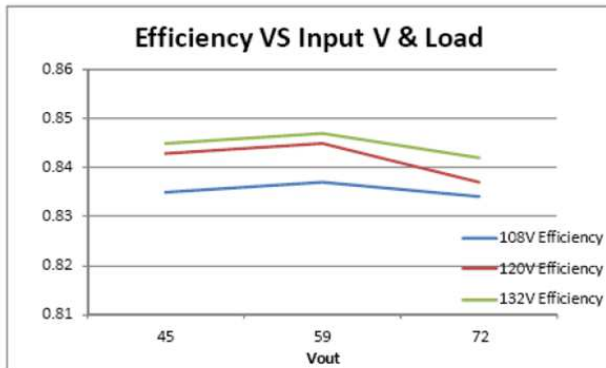
Power Factor vs. Load



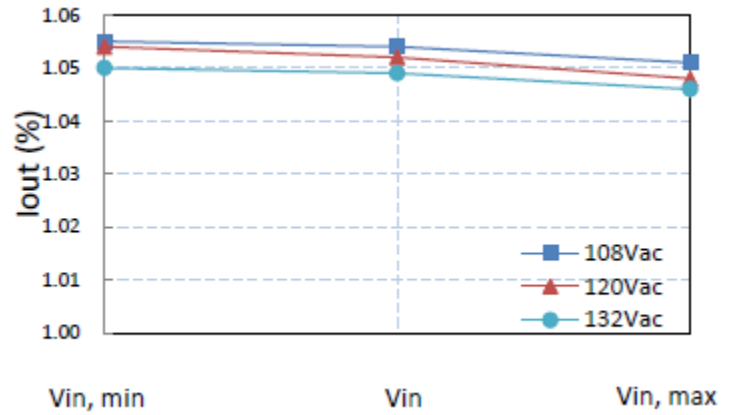
Total Harmonic Distortion vs. Load

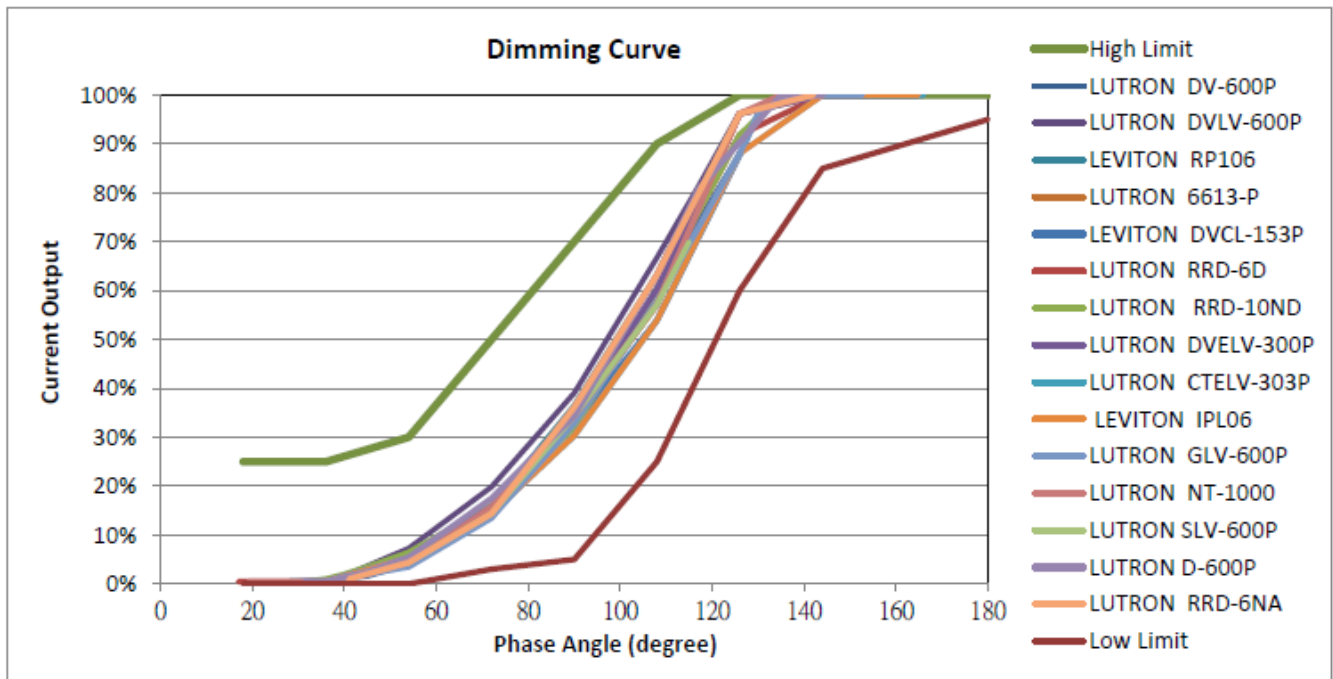


Efficiency vs. Load



Load (Vout) & Line (Vin) regulation





### Dimmer Compatibility List

Make	Dimmer Name	Series
LEVITON	RP106	ROTARY
LEVITON	IPL06	SLIDE
LUTRON	DVCL-153P	DIVA
LUTRON	CTELV-303P	SKYLARK CONTOUR
LUTRON	DVLV-600P	DIVA
LUTRON	NT-1000	NOVA T
LUTRON	D-600P	DIVA
LUTRON	RRD-6D	RADIO RA2
LUTRON	RRD-6NA	RADIO RA2
LUTRON	6613-P	SURESLIDE
LUTRON	GLV-600P	GLIDER
LUTRON	RRD-10ND	RADIO RA2
LUTRON	DVELV-300P	DIVA
LUTRON	DV-600P	DIVA
LUTRON	SLV600P	SKYLARK

The driver has been tested and is compatible with the above list of dimmers.