



8.4W Constant Current LED Driver

PDA010X-700C-R Series

- CC mode
- Plastic case
- Terminal
- IP20



Phihong LED drivers are the choice of the world's major fixture manufacturers. Our high-efficiency LED drivers last as long as the LEDs in your fixture design. Backed by engineering excellence and product reliability, Phihong LED drivers meet or exceed worldwide efficiency standards and provide the most cost effective and safety conscious power solution for lighting fixtures. This non-dimmable, constant current output LED driver is perfect to power any LED lighting products that draw power up to 8.4 watts. It makes for a more environmental-friendly and energy-efficient choice.

Features :

Efficiency	High efficiency up to 70%
Warranty	3 Years
IP level	IP20, plastic housing
Protection	OVP, OCP, SCP
Input OCP	Input shall be fused with a 1.6A/250V time-lag
Turn-On Delay Time	<0.7s at nominal AC power on
Brownout	Brownout Recovery
Isolation	3750Vac between input and output wires
Dimension	106*40*22 (mm)
Weight	85 ± 3 (g)

Electrical Specifications :

Input Voltage	Model A:230~240Vac(211~264Vac min/max) Model B:110~120Vac(90~132Vac min/max)
Frequency	60Hz Nom (47~63 Hz min/max)
Input Current	160 mA max @ 100Vac
Output Voltage	7.5~12Vdc
Maximum Output Power	8.4W
Output Current Accuracy	±10%
Output Current Ripple	≤1A (p-p)
Leakage Current	0.5mA maximum @ 110Vac
Inrush Current	≤12A max @ 120Vac
Load Regulation	±5%
Line Regulation	±1%
THD	≤20% @ full load, nominal AC input
Power Factor	≥0.9 @ full load, nominal AC input

Environmental Specifications :

Operating Temperature	-20°C ~ +50°C
Max Case Temperature	80°C
Storage Temperature	-40°C ~ +85°C
Humidity	5% ~ 95%
Life Time	20,000 Hours at ta maximum load

Safety and Compliance :

UL 1310 or UL 1012, Subject 8750
IEC61347-1, IEC61347-2-13
Emission: met EN55015/CISPR 15 requirements,
EN61000-3-2, EN61000-3-3 compliant
Immunity: IEC61547 compliant
ESD (Model A): Air ±8kV; Contact: 6kV IEC61000-4-2 compliant
ESD (Model B): Air ±8kV; Contact: 4kV IEC61000-4-2 compliant
Surge (Model A): 0.5kV(L-N) /1.2~50us; IEC61000-4-5 compliant
Surge (Model B): 2kV(L-N) /1.2~50us; IEC61000-4-5 compliant



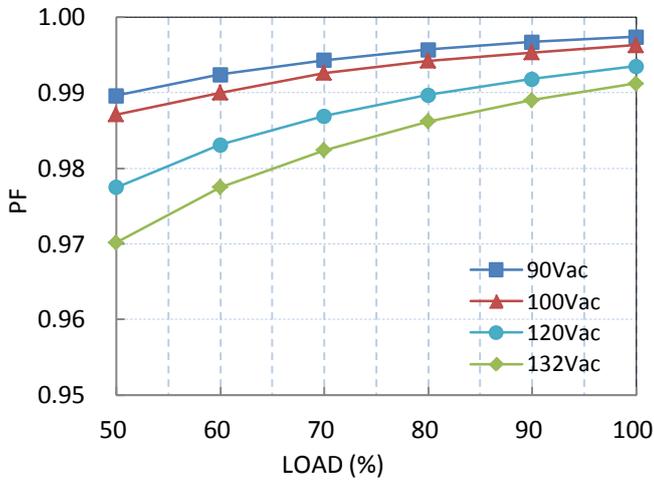
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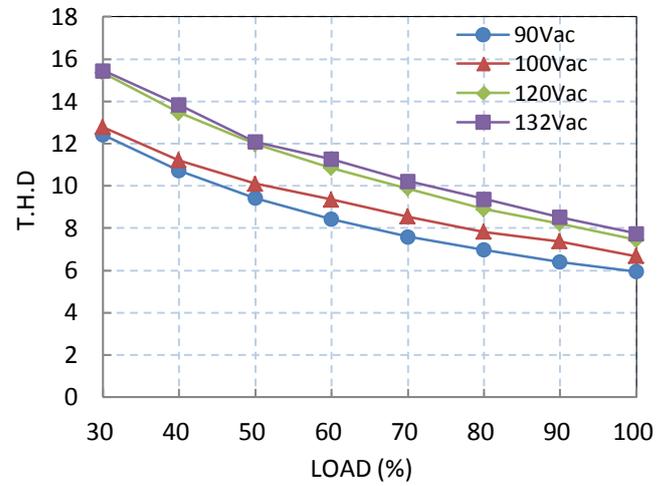
● CC mode ● Plastic case ● Terminal ● IP20



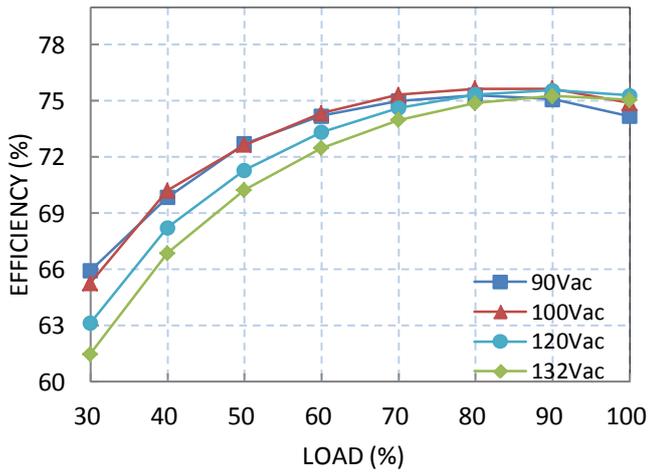
Model B: Power factor vs. Load



Model B: THD vs. Load

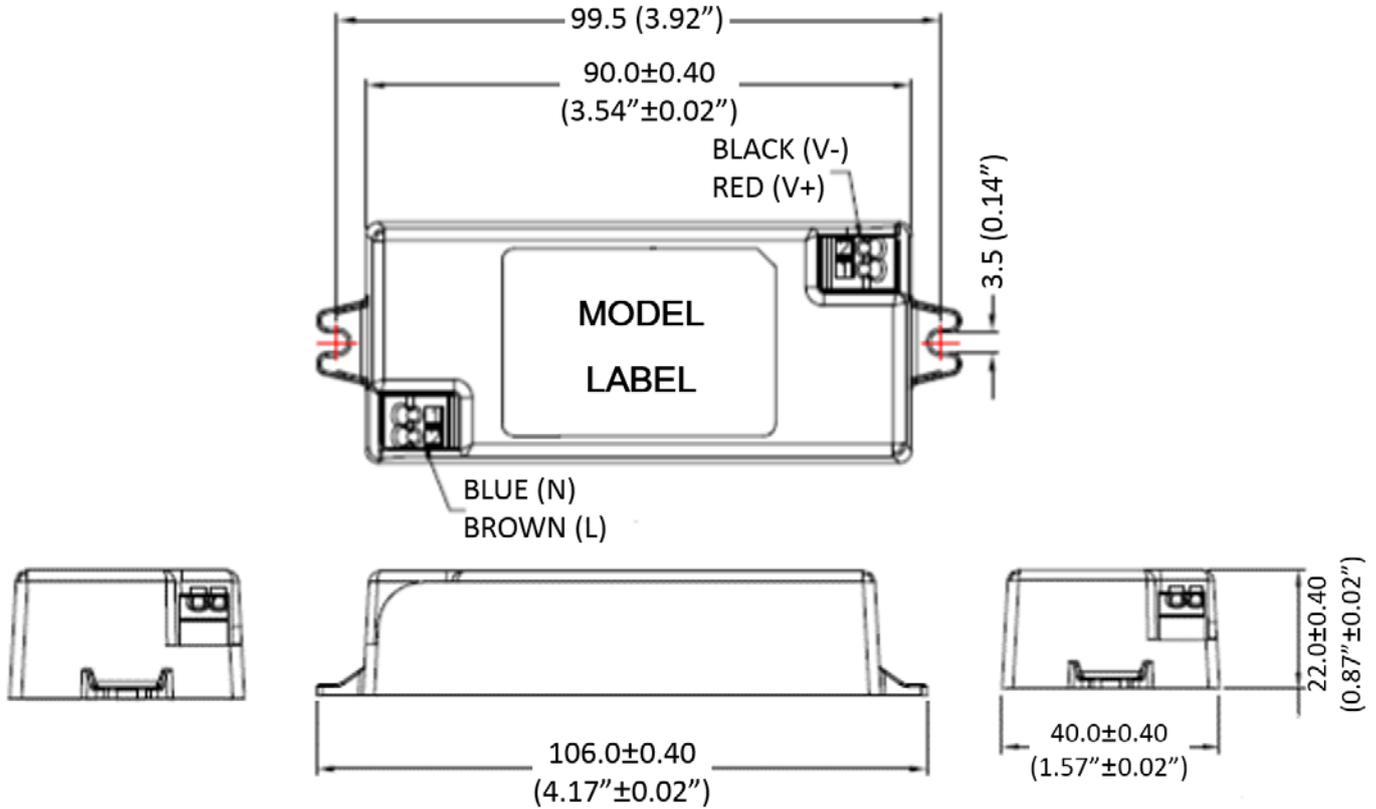


Model B: Efficiency vs. Load





Dimensions: mm (inches)



Wire Connections		
Position	Terminal Color	Specification
Input		
Neutral	Blue	AWG 10~24 Solid Wire
Line	Brown	AWG 10~24 Solid Wire
Output		
Vout-	Black	AWG 10~24 Solid Wire
Vout+	Red	AWG 10~24 Solid Wire



Model Selections					
Model Number	Input Voltage (Vac)	Output Current (mA ±5%)	Output Voltage (Vdc)	Max. Output Power (W)	Typical Efficiency
PDA010A-700C-R	211~264	700	7.5~12	8.4	70%
PDA010B-700C-R	90~132	700	7.5~12	8.4	70%



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Headquarters

No. 568, Fusing 3rd Rd.,
Gueishan District, Taoyuan City,
333, Taiwan, R.O.C.
Tel: +886-3-3277288
Fax: +886-3-3185999
phsales@phihong.com.tw
www.phihong.com.tw

Phihong USA

47800 Fremont Blvd.
Fremont, CA 94538, USA
Tel: +1-510-445-0100
Fax: +1-510-445-1678
usasales@phihongusa.com
www.phihong.com

Phihong China

Science & Technology Rd.,
Silver Lake Industrial Area
Qingxi Town, Dong Guan City,
Guang Dong (523648), China
Tel: +86-769-87319026
Fax: +86-769-87317106
phsales@phihong.com.tw

Phihong Japan

〒135-0016 東京都江東区東陽
3丁目23番24号 VORT 東陽町
ビル5階
TEL : +81-3-5677-1678
FAX : +81-3-5634-5255
phsales@phihong.com.tw
www.phihong.co.jp

Phihong Europe

Wattstraat 50, 2171 TR
Sassenheim, The Netherlands
Tel: +31-(0)-252-225910
Fax: +31-(0)-252-218764
sales@phihongeu.com
www.phihong-lighting.com



PHIHONG TECHNOLOGY CO., LTD.

- +886-3-3277288
- www.phihong.com.tw
- phsales@phihong.com.tw