



10W/30W Trailing Edge Dimming LED Driver

PDM010H, PDM030H Series

● CC mode ● Plastic case ● Trailing Edge Dimmable ● Connector ● 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 trailing edge dimmable, constant current output LED driver is perfect to power any LED lighting products that draw power up to 10 or 30 watts. It makes a more environmental-friendly and energy-efficient choice.

Features :

Efficiency	PDM010H 74% typ., PDM030H 84% typ.
Warranty	3 Years
IP level	IP20, Suitable for dry locations
Protection	OVP, OCP, SCP, Open circuit protection
Input OCP	Input power line shall be fused with 1.6A fuse
Turn-On Delay Time	≤0.5s at nominal AC power on
Turn-on Over-shoot	≤1A
Brownout Protection	Brownout Recovery
Isolation	3230Vac primary to secondary
Insulation Resistance	>5MΩ (500Vdc between P-S)
Dimming Control	Trailing Edge dimming, dim down to 10%
Dimension / Weight	10W: 106*40*21 (mm) / 85 (g)
	30W: 132*40*21 (mm) / 120 (g)

Electrical Specifications :

Input Voltage	110~120Vac (90~132Vac min/max)
Frequency	50~60Hz Nom (47~63 Hz min/max)
Input Current	≤160mA(PDM010H) / ≤0.5A(PDM030H) @ 100V
Output Voltage	7.5~12Vdc (PDM010H) / 15~42Vdc (PDM030H)
Maximum Output Power	10W / 30W
Output Current	700mA ±50mA
Leakage Current	0.5mA max @ nominal AC input
Inrush Current	≤12A(PDM010H) / ≤20A(PDM030H) @ 120V
Load Regulation	±5%
Line Regulation	±1%
THD	≤20% @ full load, nominal AC input
Power Factor (PDM010H)	≥0.7 @ full load, nominal AC input
Power Factor (PDM030H)	≥0.95 @ full load, nominal AC input

Environmental Specifications :

Operating Temperature	-20°C ~ +50°C
Storage Temperature	-40°C ~ +85°C
Operating Humidity	10% ~ 95%
Storage Humidity	5% ~ 95%
Life Time	>20,000 Hours at $t_a \leq 50^\circ\text{C}$
Switching cycle	>13,000 switching cycles @ 110Vac

Safety and Compliance :

UL 8750
Emission: FCC 47 part 18
Immunity: EN61547 compliant
ESD 10W: Air ±8kV; Contact: ±6kV, E61000-4-2 Criteria B
ESD 30W: Air ±8kV; Contact: ±4kV, E61000-4-2 Criteria B
Surge immunity 10W: L-N : 0.5kV / 1.2 ~ 50μs, EN61000-4-5 Criteria B
Surge immunity 30W: L-N : 1kV / 1.2 ~ 50μs, EN61000-4-5 Criteria B
THD : IEC61000-3-2 Class C compliant



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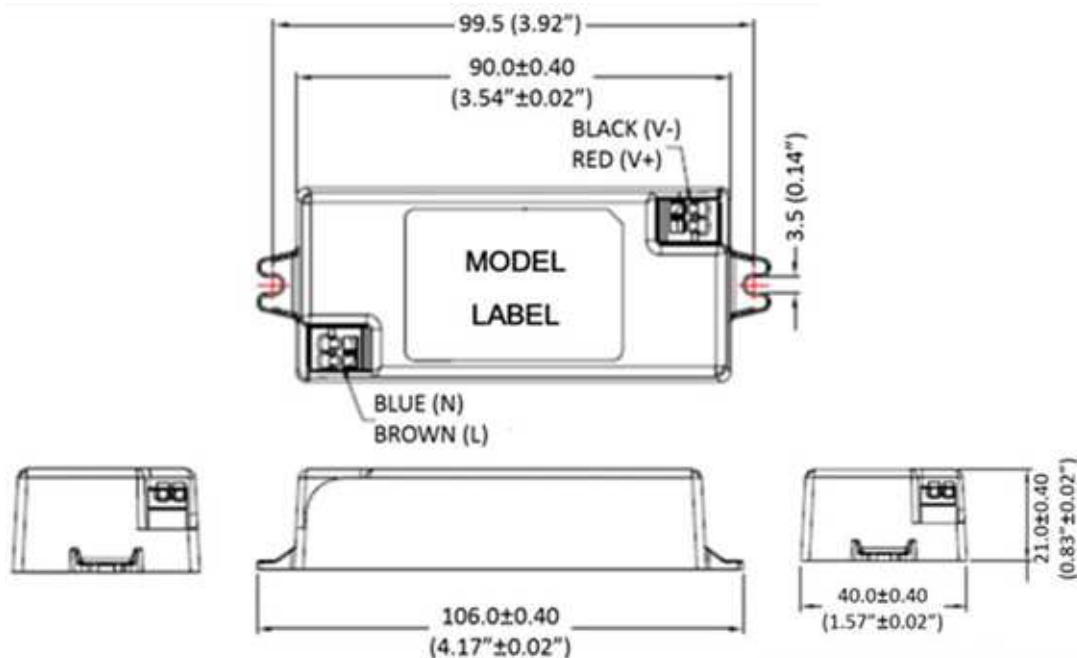
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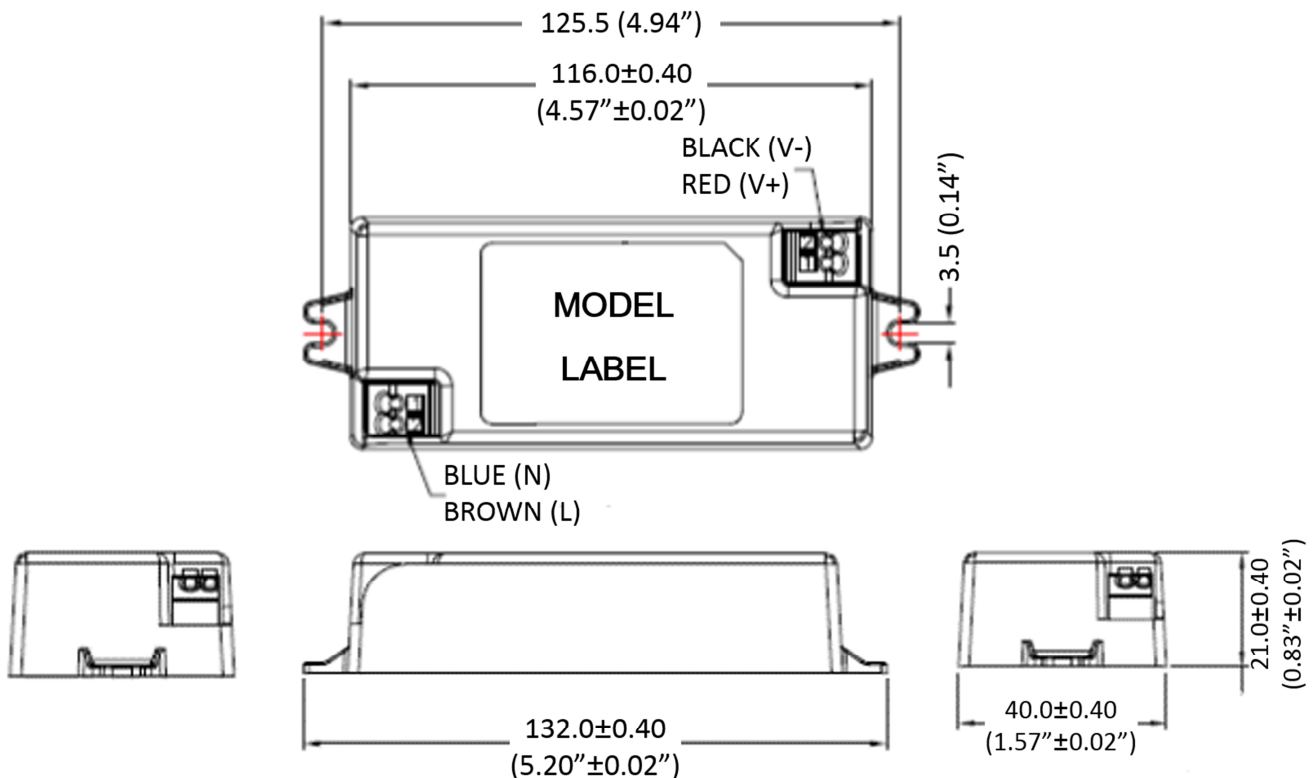


Dimensions: mm (inches)

PDM010H-700CPH-R



PDM030H-700CPH-R



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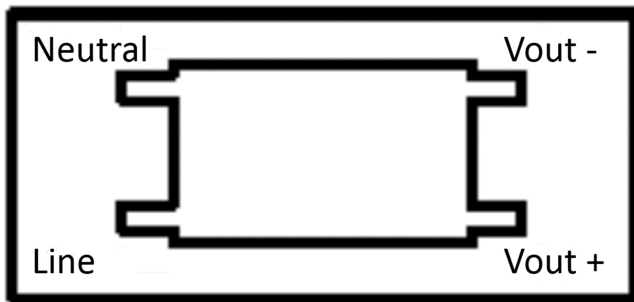
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Wire Connections:

Wire Connections		
Position	Terminal Color	Specification
Input		
Line	Brown	AWG10-24 Solid Wire
Neutral	Blue	AWG10-24 Solid Wire
Output		
Vout+	Red	AWG10-24 Solid Wire
Vout-	Blue	AWG10-24 Solid Wire



Model Selections				
Model Number	Output Current (mA $\pm$ 5%)	Output Voltage (Vdc)	Max. Output Power (W)	Typical Efficiency
PDM010H-700CPH-R	700	7.5~12	10	74%
PDM030H-700CPH-R	700	15~42	30	84%

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