POWER ⊕ SOURCE

LED Driver (Triac Dimming – Leading edge and trailing edge)
Constant Voltage
• L Brown
Model: PDV-100-12
Input: 200-240V~ 0.8A 50/60Hz
Output: 12V⎓ 8.33A 100W
• tc ta:40℃ tc:80℃ For LED module only
+ Red •
Output
Input
Y/G
• N Blue
- Black •
CE SELV ⟁116 IP66
POWER SOURCE 26 Garden Blvd, Dingley Village, VIC, 3172   Made in China

5 YEAR
WARRANTY

100W
Phase Cut Dimmable LED Driver
with PWM Output

Features of the:
PDV-100 Series

- Constant Voltage PWM Output
- AC Input Range: 200-240VAC
- Protections:
  • Short Circuit
  • Over Load
  • Over Temperature
- Class I Power Supply

- IP66 Design For Indoor Installation
- Cooling by Free Air Convection
- Factory Fitted Flex and Plug
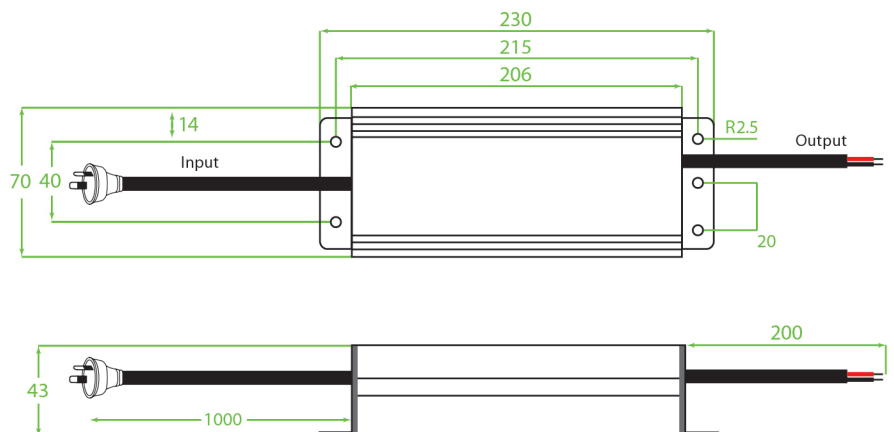- Compatible with Most Leading and Trailing Edge Dimmers

Australian Approvals

CE ⊡ ⊟ ⊠ IP66 SELV

Specification

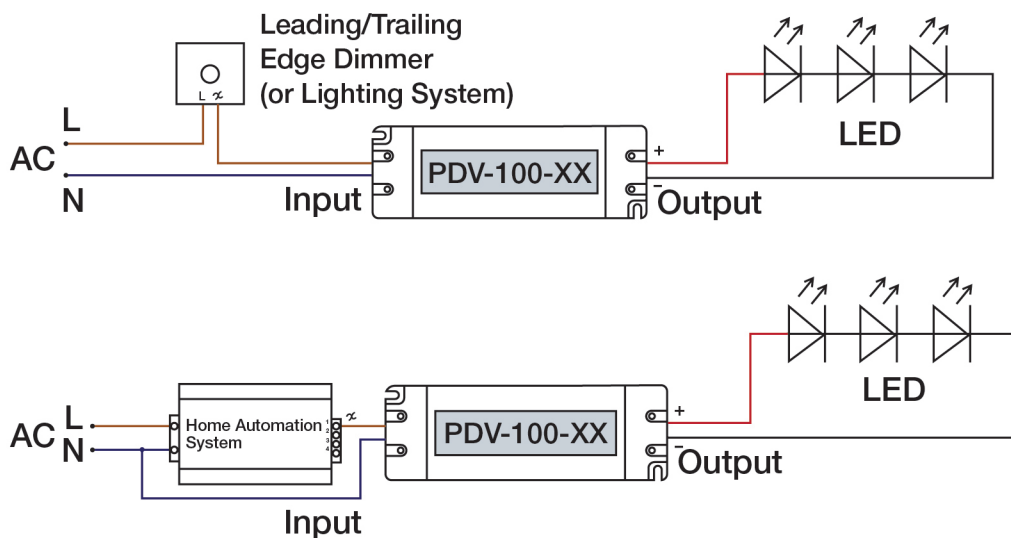| Model		PDV-100-12	PDV-100-24
Output	DC voltage	12V	24V
	Voltage tolerance	±0.5V (see Note 2.)	
	Rated current	8.33A	4.16A
	Rated power	100W	
Input	Voltage range	200-240VAC	
	Frequency range	47~63HZ	
	Power factor	PF ≧ 0.97/200VAC PF ≧ 0.97/230VAC PF ≧ 0.97/240VAC (Full loading)	
	Full load efficiency (Typ.)	83%	84%
	AC current (Max.)	0.8A	0.8A
	Leakage current	<0.50mA	
	Inrush current	Cold Start 49.5A (twidth = 490us measured at 50% Ipeak) at 230 VAC	Cold Start 30A (twidth = 200us measured at 50% Ipeak) at 230 VAC
	MAX. No. of drivers on 16A Circuit breaker	3 units (circuit breaker of type B) / 5 units (circuit breaker of type C) at 230VAC	
Protection	Short circuit	Shut down o/p voltage, re-power on to recover after fault condition is removed	
	Over loading (Note 4.)	≦120% constant current limiting, auto-recovery	
	Over temperature	≦100°C± 10°C shut down o/p voltage, re-power on to recover	
Environment	Working TEMP.	-40-+70°C (refer to de-rating curve)	
	Working humidity	20~95%RH, non-condensing	
	Storage TEMP., humidity	-40~+80°C,10-95%RH	
	TEMP. coefficient	±0.03%/°C (0~40°C)	
	Vibration	10-500Hz, 2G 10min./1 cycle, period for 72min, each along X, Y, Z axes	
Safety & EMC	Safety standards	EN61347-1 EN61347-2-13	
	Withstand voltage	I/P-O/P:3.75KVAC I/P-FG:1.88KVAC O/P-FG:0.5KVAC	
	Isolation resistance	I/P-O/P I/P-FG O/P-FG:100MΩ/500VDC/25°C/70%RH	
	EMC emissions (Note 3.)	EN55015, EN61000-3-2,3 (≧60%loading)	
	EMC immunity	EN61000-4-2,3,4,5,6 ,11, EN61547	
Others	Net. weight	1.1kg	
	Size	230*70*43mm(L*W*H)	
	Packing	245*75*65mm inner box, 340*275*170mm outside carton 10PCS /CTN	
Notes		1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Tolerance: Includes set up tolerance, line regulation and load regulation. 3. The LED driver is considered as a component that is operated in conjunction with final equipment. EMC performance could be affected by the complete installation. Original equipment manufacturers may need to conduct additional EMC testing and certification on the final equipment. 4. Loading range from 10% to 100%. 5. Specifications are subject to change without prior notice. Contact your supplier to confirm any critical parameters.	

Dimming Operation

- Dimming is with installing a leading edge, or trailing edge dimmer across the AC input.
- Compatible with most leading edge and trailing edge dimmers. Australian compatibility table available on request.
- It is recommended that a dimmer, with a power rating three times higher than that of the rated output of the LED driver is used.
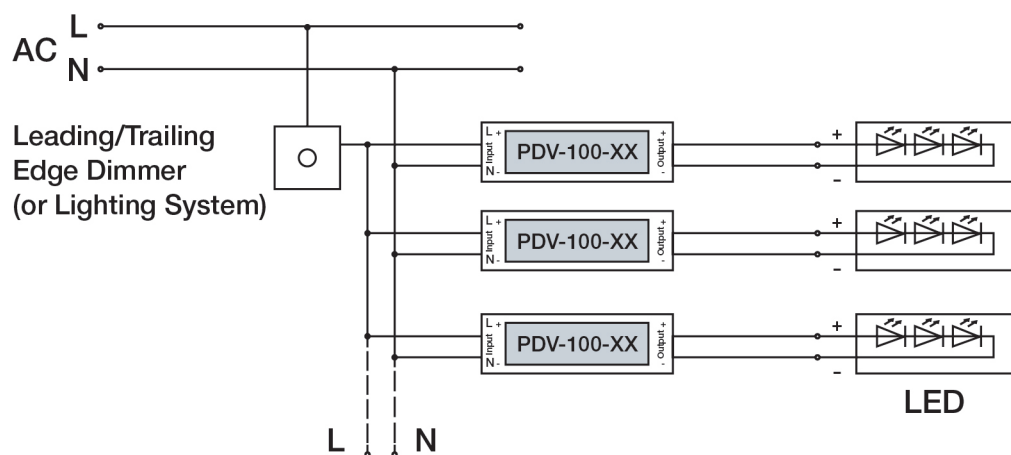
Mechanical Specification

- Output cable type: Rubber H05RN-F 2*1.0mm².
- Connect LED to LED driver via the output cable:
  Red output(V+) Positive, Black output (V-) negative.
- Incorrect wiring could result in damage to the LED driver, which is not covered by the warranty.
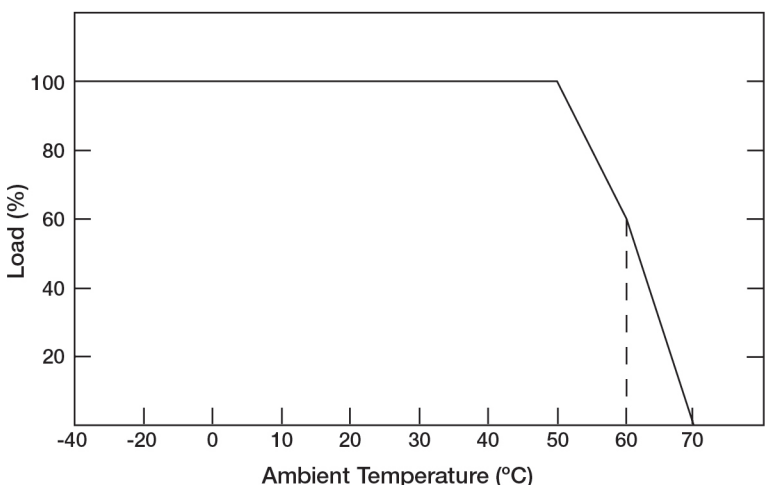- Contact your supplier with specific input, or output configuration requests.

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Document name: PDV-100 Data Sheet 01-06-2020

Connection Diagram

Single Driver Connection Diagram

Leading/Trailing Edge Dimmer (or Lighting System)

L
AC
N

Input

PDV-100-XX

+
Output
−

LED

AC L N

Home Automation System

PDV-100-XX

+
Output
−

LED

Input

Multiple Drivers Connection Diagram

AC L N

Leading/Trailing Edge Dimmer (or Lighting System)

L + Input N − PDV-100-XX Output + − + −

L + Input N − PDV-100-XX Output + − + −

L + Input N − PDV-100-XX Output + − + −

L   N

LED

De-rating Curve

- If being used in higher ambient temperatures, ensure the load on the LED driver is de-rated in accordance with this chart. Failure to do so could lead to a premature failure, which is not covered by the warranty.

Important

1) This LED driver should be installed by a qualified electrician.
2) Please make sure the LED driver is installed with adequate ventilation around it to allow for heat dissipation.
3) Ensure that all wiring is correct before testing in order to avoid damage to the LED driver, or the LEDs.

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