

Datasheet

CDCM-120W

FORTEC
UNITED STATES

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INTEGRATED

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UNITED KINGDOM

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PINNACLE[™] 120W SERIES

Constant Current | Tri-Mode Dimming



Tri-Mode Dimming of Constant Current LED Drivers were designed for input voltages 120VAC through 277VAC and maintains a fully isolated output.

Compatible with Triac (forward-phase or leading-edge), ELV (reverse-phase or trailing-edge) and 0-10V dimmers.

We've built-in automated short circuit, over voltage, over current and over temperature protections. Each driver undergoes rigorous testing and a full load burn in.

Features



Tri-mode Dimmable



UL Class P Power Supply



IP65 Rated Case with Silicone-based Potting



90°C Maximum Case Temperature



Worldwide Safety Approvals



5 Year Warranty (Minimum at 70°C Tc)

Model Information

Part Number	Input Voltage (Vac)	Output Power (w)	Output Current (mA)	Output Voltage (Vdc)	Dimming Method
CDCM-120-2100-57	120-277	120	2100	57	TRIAC, ELV & 0-10 V
CDCM-120-2700-45	120-277	120	2700	45	TRIAC, ELV & 0-10 V

Input

Voltage Range:	120 - 277V
Frequency Range:	47/60HZ
Input Current:	1.05 A @ 120 Vac 0.58 A @ 230 Vac 0.48 A @ 277 Vac
Power Factor (PF):	>0.9
Inrush Current:	6.16A/120VAC 14.2A/230VAC
Leakage Current:	400 uA @ 120 Vac 800 uA @ 230 Vac 920 uA @ 277 Vac
Efficiency:	>92%
THD:	<20%

Output

Output Voltage	6-56V Current Dependent
Output Current	180-1750mA Voltage Dependent
Output Voltage Regulation	± 5.0%
Output Voltage Overshoot	<10%
Setup, Rise, Hold Up time	<1s

Dimming Control

+Dim Signal, -Dim Signal	CDCM 120W SERIES operate only with 0-10V dimmers . The method to dim the output current of the driver is done via the +Dim/-Dim Signal pins. The +Dim/-Dim signal pins can be used to adjust the output setting via a standard commercial wall dimmer, an external control voltage source (0 to 10 Vdc), or a variable resistor when using the recommended number of LEDs. The dimming input permits 1% to 100% dimming.
Dimming Range	1% -100%

Protection

Over Load Protection:	105-150% Protection type: Auto Restore
Over Voltage Protection:	105-130% Protection type: Auto Restore
Short Circuit Protection:	Protection type: Auto Restore
Warranty:	5 Years at Tc 70°C

Environment

Working Temperature	-20°C - +50°C
Working Humidity	20% - 90%RH
Storage Temperature	-40°C - +85°C
HSF requirement	Reach, RoHS

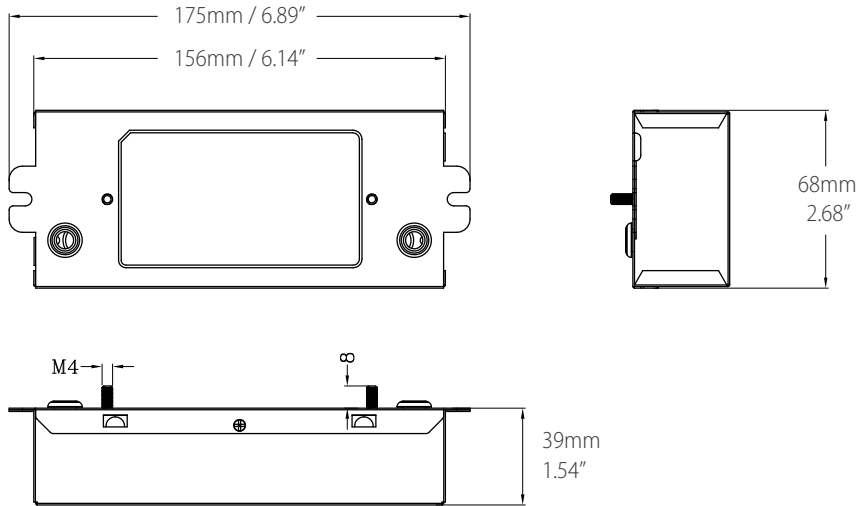
Safety and Electromagnetic Compatibility

Certifications:	UL, cUL, CE, FCC
Safety Standards:	UL8750 listed Class P; CAN/CSA C22.2 No. 250.13-14 LED equipment for lighting applications; EN61347-2-13 electronic control gear for LED Modules
EMI:	Compliant with FCC CFR Title 47 Part 15 Class B at 120 Vac & Class A at 277 Vac; Compliant with EN55015 (EMC compliance) at 230 Vac
EMS:	EN 61000-4-2; Performance Criteria B EN 61000-4-5; Performance Criteria C

Dimensions & Weight

Length:	17.5cm / 6.89in
Width:	6.8cm / 2.68in
Height:	3.9cm / 1.54in
Weight:	254.5g

Spec Drawing



Label

YINGJIAO®

Model: CDCM-120-2700-42
 Dimmable Constant Current LED Driver
 Class II
 Suitable for operation with a TRIAC dimmer
 Suitable for Dry or Damp locations

AC INPUT:
 120-277V~1.1A
 50/60Hz
 PF ≥0.9
 THD ≥20%
 L: Black
 N: White

DC OUTPUT:
 Regulated Current: 2700 mA \pm
 Maximum Power: 100W
 Voltage Range: 30-37 Vdc
 No Load Voltage: 42 Vdc
 + : Red
 - : Black
 +DIM: Purple
 - DIM: Pink
 (For 0-10v dimming)
 Made in China

● tc

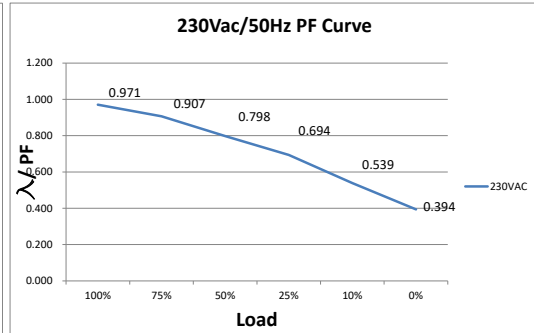
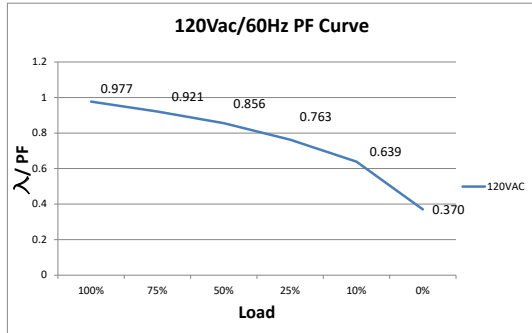
FC **c** **UL** **us** **LVLE**

Packing

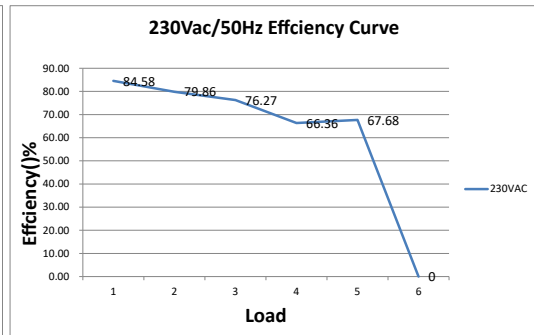
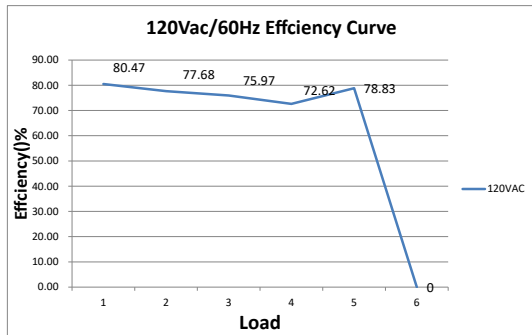
Carton Size	40 x 16.5 x 37 cm
	15.7 x 6.5 x 14.6 in
Master Carton Quantities	20pcs / Carton

Feature Curves

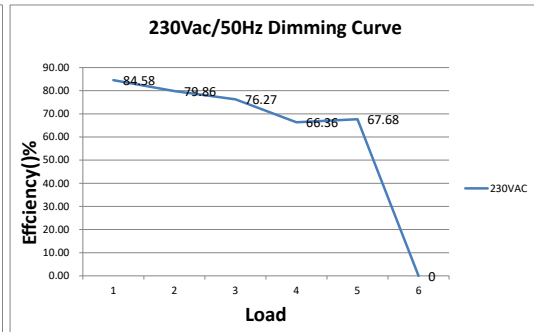
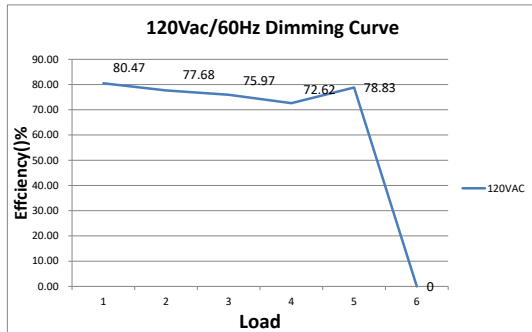
1. PF Curve



2. Efficiency Curve



3. Dimming Curve



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