

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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PLED120W Series

Flicker-Free High Performance LED Drivers



Electrical Specifications Input Voltage Range: 100-277 Vac Nom. (90-305 V Min/Max) Can endure 320Vac for 48 Hrs, Input Over-Voltage: 350Vac for 2 Hrs Frequency: 50/60 Hz Nom. (47-63 Hz Min/Max) Power Factor: >0.90 @ > 70% load, 120-277V 60.0 Amps max @ 277 Vac, cold start, Inrush Current: full load 0.60 Amps max @ 230 Vac, 1.20 A max @ 120 Vac Input Current: Maximum Power: 120W Current Accuracy: ± 3% Load Regulation: ± 4% THD: ≤ 20% @ > 70% load, 120-277V 5% Vo max @ 20 MHz BW, Full load output Ripple & Noise: in parallel with 0.1 μF ceramic & 10 μF (Vpk-pk) Electrolytic 5% Io max @ 20 MHz BW, Full load output in parallel with 0.1 μF ceramic & 10 Ripple: (lpk-pk) μFElectrolytic. 120 Hz component (Flicker Free) 150mS typical @ Full Load, 120Vac/60Hz Start-up Time: (1000mS max) 0.68 mA max @ 120Vac. Leakage Current: 0.75 mA max @ 277Vac Hold Up Time: 30mS typical @ Full Load, 277Vac **Protections** Over-voltage Output Over-current Output **Auto Recovery** Short Circuit **Environmental Specifications** Max Case Life Temp: (5 year warranty) Maximum Case Temp (UL): Minimum Starting Temp: -30°C UL Type TL Rating: Non-Class 2: 90/82°C -40°C to +85°C Storage Temperature: Humidity: 5% to 95% Cooling: Convection Vibration Frequency: 5 to 55 Hz/2g, 30 minutes Impact Resistance: 280,000 Hours at full load and 40°C ambi-MTRF: ent conditions per MIL-217F Notice 2 EMC: FCC 47CFR Part 15 Class B compliant

Dimming Option:

Weight:

"-D" 0-10V & Resistance dimmable models include an extra two wires +Purple/-Gray on the output side. "-D" Compatible with most quality 0-10V wall dimmers. See page 3.

24.4 oz (690 grams)

"-D3" 3-wire dimmable model dims 100% to 10%. Three extra wires included on the output side: Yellow/Purple/Gray. This model is suitable for potentiometer dimming. See page 3.

Note

LED drivers are designed and intended to operate LED loads only. Non-LED loading may be outside the specified design limits of our LED drivers, and therefore cannot be covered by any warranty. If you desire to use our LED drivers to operate non-LED loads please contact us to discuss compatibility.

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Constant Current Models

Model	Output Current (mA ±5%)	Output Voltage Range (Vdc)	Max Output Power (W)	Typical Efficiency
PLED120W-343-C0350-XX	350	114-343	120	92%
PLED120W-266-C0450-XX	450	89-266	120	92%
PLED120W-171-C0700-XX	700	57-171	120	91%
PLED120W-114-C1050-XX	1050	38-114	120	91%
PLED120W-086-C1400-XX	1400	29-86	120	91%
PLED120W-068-C1750-XX	1750	23-68	120	91%
PLED120W-057-C2100-XX	2100	19-57	120	90%
PLED120W-049-C2450-XX	2450	17-49	120	90%
PLED120W-043-C2800-XX	2800	15-43	120	90%
PLED120W-038-C3150-XX	3150	13-38	120	90%
PLED120W-034-C3500-XX	3500	12-34	120	89%
PLED120W-028-C4200-XX	4200	10-28	120	89%
PLED120W-024-C5000-XX	5000	8-24	120	89%

⁻XX indicates dimming options are available. See options at left. Blank = fixed current output

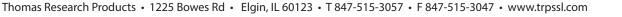
Constant Voltage Models

Model	Output Voltage (Vdc ±5%)	Output Current Range (mA)	Max Output Power (W)	Typical Efficiency
PLED120W-024 •	24	1250-5000	120	89%
PLED120W-028	28	1050-4200	120	89%
PLED120W-034	34	875-3500	120	89%
PLED120W-038	38	788-3150	120	90%
PLED120W-043	43	700-2800	120	90%
PLED120W-049	49	613-2450	120	90%
PLED120W-057	57	525-2100	120	90%
PLED120W-068	68	438-1750	120	91%
PLED120W-086	86	350-1400	120	91%
PLED120W-114	114	263-1050	120	91%
PLED120W-171	171	175-700	120	91%
PLED120W-266	266	113-450	120	92%
PLED120W-343	343	88-350	120	92%

Indicates S.A.M.

- Total Power: 120 Watts
- Input Voltage: 100-277 Vac Nom.
- Constant Current & Constant Voltage with Isolation
- UL Dry & Damp Location Rated
- IP66 & NEMA6
- UL Type HL Rated for Hazardous Locations
- UL Sign Components Manual (S.A.M. Models)
- Black Magic Thermal Advantage™ Aluminum Housing

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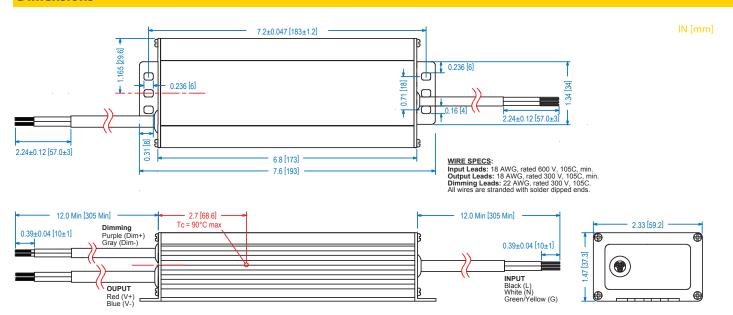


PLED120W Series

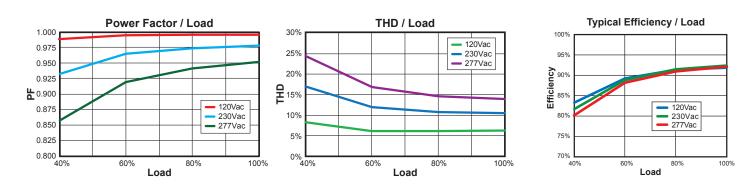


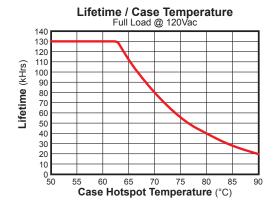
Flicker-Free High Performance LED Drivers

Dimensions



Power Characteristics





Safety Cert.	Standard
UL/CUL	UL8750 & CAN/CSA-22.2 No. 250.13-12, UL1012/CSA-C22.2 No.107.1
CE	EN 61347-1, EN61347-2-13
EMC Standard	Notes
FCC, 47CFR Part 15	Class B
EN 55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment.
EN 61000-3-2	Part 3-2: Limits for harmonic current emissions Class C, >80% Rated Power
EN 61000-3-3	Part 3-3: Limitation of voltage changes, voltage fluctuations and flicker.
EN 61000-4-5	Part 4-5: Surge Immunity test, 2 kV L-N, 4 kV L-G & N-G

UL Conditions of Acceptability

See website for additional information

Note: The area under the life-temperature curve represents where the driver has highly reliable operation within specification. Driver performance may drift out of published specifications as the hours of operation exceed the curve at a given temperature. Higher operating temperatures increase the chances of a failure to function. Other electrical, mechanical and environmental factors affect driver lifetime but are not represented in this calculation.





PLED120W Series

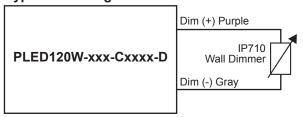


Flicker-Free High Performance LED Drivers

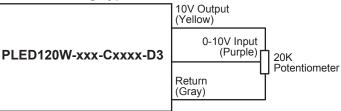
"-D" Option: 0-10VDC and Resistance Dimming

Parameters	Minimum	Typical	Maximum
10V Output, Yellow Wire	9.2V	10.0V	10.8V
Source Current out of Aux Yellow Wire			10mA
Absolute Voltage Range on 0-10V (+) Purple Wire	-2.0V	_	+15V
Source Current out of 0-10V Purple Wire	0mA	_	2mA

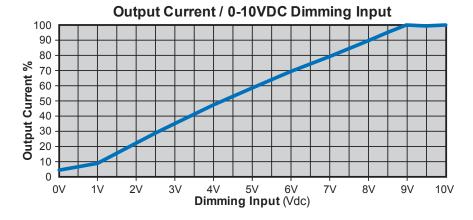
Typical Dimming Circuit



3-Wire Dimming Typical Circuit



(Dimmer must be current-sink type control)



Notes:

- 1. 0-10V dimmable version comes with an extra two wires +Purple/-Gray on the output side.
- 2. Compatible with most 0-10V Wall Slide dimmers and direct 0-10V analog signal. Recommended dimmer is Leviton IP710 or equivalent
- 3. 0-10V dimmable version is not intended to dim to zero (off). Will be lout <10% @ Vdim <1.0V
- 4. 0-10V dimmable version output will be 100% with Purple/Gray open and minimum with Purple/Gray Shorted.