

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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PLED-96W Series

Flicker-Free LED Drivers



Electrical Specifications Input Voltage Range: 100-277 Vac Nom. (90-305 V Min/Max) Can endure 320Vac for 48 Hrs, 350Vac for Input Over-Voltage: 2 Hrs Frequency: 50/60 Hz Nom. (47-63 Hz Min/Max) Power Factor: >0.90 @ 60-100% load, 100-277Vac Inrush Current: <50.0 Amps max @ 230Vac, cold start 25°C Input Current: 1.30 Amps max 96W Maximum Power: Current Accuracy: ± 2% Over input line variation Load Regulation: ± 3% THD: ≤ 20% @ 60-100% load, 100-277Vac 5% Vo max @ 20 MHz BW, Full load output Ripple & Noise: in parallel with 0.1 μF ceramic & 10 μF (Vpk-pk) Electrolytic 5% lo max @ 20 MHz BW, Full load output in parallel with 0.1 μF ceramic & 10 Ripple: (lpk-pk) uFElectrolytic. 120 Hz component (Flicker Free) 200mS typical @ Full Load, 120Vac/60Hz Start-up Time: (1000mS max) 0.28 mA max @ 120Vac, 0.78 mA max @ Leakage Current: Hold Up Time: 40mS typical @ Full Load, 277Vac **Protections** Over-voltage Output Over-current Output Short Circuit Auto Recovery **Environmental Specifications** Max Case Life Temp: 73°C (5 year warranty) Maximum Case Temp (UL): 90°C Minimum Starting Temp: -30°C Class 2: 83/54°C; Non-Class 2: 90/75°C UL Type TL Rating: Storage Temperature: -40°C to +85°C 5% to 95% Humidity: Cooling: Convection Vibration Frequency: 5 to 55 Hz/2g, 30 minutes Sound Rating: Class A Impact Resistance: 1g/s 474,000 Hours @ full load and 40°C ambi-MTBF: ent conditions per MIL-217F Notice 2 EMC: FCC 47CFR Part 15 Class B compliant

Dimming Option:

Weight:

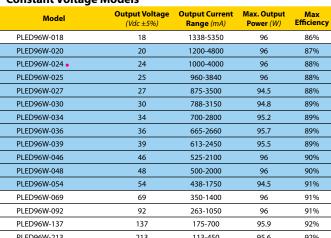
0-10V & Resistance dimmable models include an extra two wires +Purple/-Gray on the output side. "-D" Compatible with most quality 0-10V wall dimmers. See page 3.

21.6 oz. (612 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.

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.





- Total Power: 96 Watts
- · Constant Current & Constant Voltage with Isolation
- Input Voltage: 100-277 Vac Nom.
- UL Dry & Damp Location Rated
- IP66 & NEMA6
- UL Type TL
- UL Type HL Rated for Hazardous Locations
- UL Sign Components Manual (S.A.M. Models)
- Black Magic Thermal Advantage™ Aluminum Housing





Constant Current Models

Model	Output Current (mA ±3%)	Output Voltage Range (Vdc)	Max. Output Power (W)	Max Efficiency
PLED96W-274-C0350-XX	350	92-274	95.9	92%
PLED96W-213-C0450-XX	450	71-213	95.6	92%
PLED96W-137-C0700-XX	700	46-137	95.9	92%
PLED96W-092-C1050-XX	1050	31-92	96	91%
PLED96W-069-C1400-XX	1400	23-69	96	91%
PLED96W-054-C1750-XX	1750	18-54	94.5	91%
PLED96W-048-C2000-XX	2000	16-48	96	90%
PLED96W-046-C2100-XX	2100	16-46	96	90%
PLED96W-039-C2450-XX	2450	14-39	95.5	89%
PLED96W-036-C2660-XX	2660	12-36	95.7	89%
PLED96W-034-C2800-XX	2800	12-34	95.2	89%
PLED96W-030-C3150-XX	3150	10-30	94.8	89%
PLED96W-027-C3500-XX	3500	9-27	94.5	88%
PLED96W-025-C3840-XX	3840	9-25	96	88%
PLED96W-024-C4000-XX	4000	8-24	96	88%
PLED96W-020-C4800-XX	4800	7-20	96	87%
PLED96W-018-C5350-XX	5350	6-18	96	86%

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

Constant Voltage Models

Model	(Vdc ±5%)	Range (mA)	Power (W)	Efficiency
PLED96W-018	18	1338-5350	96	86%
PLED96W-020	20	1200-4800	96	87%
PLED96W-024 •	24	1000-4000	96	88%
PLED96W-025	25	960-3840	96	88%
PLED96W-027	27	875-3500	94.5	88%
PLED96W-030	30	788-3150	94.8	89%
PLED96W-034	34	700-2800	95.2	89%
PLED96W-036	36	665-2660	95.7	89%
PLED96W-039	39	613-2450	95.5	89%
PLED96W-046	46	525-2100	96	90%
PLED96W-048	48	500-2000	96	90%
PLED96W-054	54	438-1750	94.5	91%
PLED96W-069	69	350-1400	96	91%
PLED96W-092	92	263-1050	96	91%
PLED96W-137	137	175-700	95.9	92%
PLED96W-213	213	113-450	95.6	92%
PLED96W-274	274	88-350	95.9	92%

Class 2: US/Canada

Pg 1 of 3



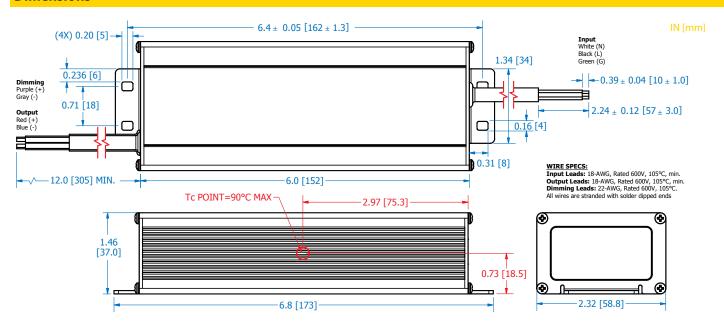


PLED-96W Series

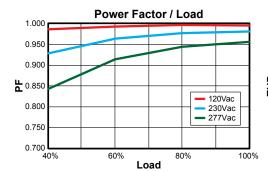


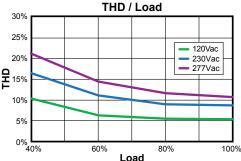
Flicker-Free High Performance LED Drivers

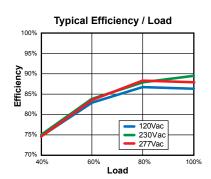
Dimensions



Power Characteristics







	Lifetime / Case Temperature Full Load @ 120Vac							_		
	130									1
	120 —			\						1
<u>~</u>	110			$\overline{}$						1
분	100									1
혼	90 —			<u> </u>	\					1
Lifetime (kHrs)	80									1
.⊑	70 —									1
ē	60								_	1
Ξ	50									1
	40 —									1
	30									1
	20 —									4
	10									1
	0 └ 50	5	5 6	60 6	5 7	0 7	5 8	8 0	5 9	90
Case Hotspot Temperature (°C)										

Safety Cert.	Standard
UL/CUL	UL8750 & CAN/CSA-22.2 No. 250.13-12, UL1310/CSA-C22.2 No.223-M91 for Class 2, UL1012/CSA-C22.2 No.107.1 for Non-Class 2
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.

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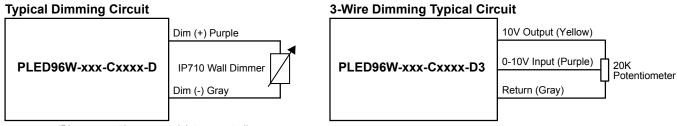
PLED-96W Series



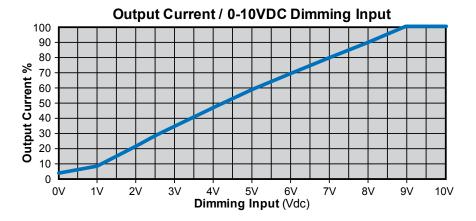
Flicker-Free High Performance LED Drivers

"-D" and "-D3" Options: 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



(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 below about 5% @ 0V or 10% @ 1.0V
- 4. 0-10V dimmable version output will be 100% with Purple/Gray open and minimum with Purple/Gray Shorted.
- 5. 3-wire dimmable drivers come with three wires on the output side (Yellow/Purple/Gray).