

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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LED90W Series Switch Mode 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: 50/60 Hz Nom. (47-63 Hz Min/Max) Frequency: Power Factor: >0.90 @ full load, 100V through 277V Inrush Current: <30.0 Amps max @ 230 Vac, cold start 25°C Input Current: 1.2 Amps max Maximum Power: 90W Current Accuracy: ± 1% Over input line variation Load Regulation: ± 3% THD: ≤ 20% @ full load Hold-up Time: Half Cycle Leakage Current: 400 μA Typical **Protections** Over-voltage Output Over-current Output **Short Circuit Auto Recovery Environmental Specifications** Max Case Life Temp: (5 year warranty) Maximum Case Temp (UL): Minimum Starting Temp: -30°C UL Type TL Rating: Class 2: 90/69°C; Non-Class 2: 90/69°C -40°C to +85°C Storage Temperature: Humidity: 5% to 95% Cooling: Convection

5 to 55 Hz/2g, 30 minutes

418,000 Hours at full load and 40°C ambi-

ent conditions per MIL-217F Notice 2

FCC 47CFR Part 15 Class B compliant

Class A

• Total Power: 90 Watts

Vibration Frequency:

Sound Rating:

MTBF:

EMC:

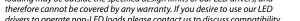
• Input Voltage: 100-277 Vac Nom. • UL Dry & Damp Location Rated

- IP66
- · High Power Factor
- UL Type HL Rated for Hazardous Locations
- Constant Current & Constant Voltage with Isolation
- Black Magic Thermal Advantage™ Plastic Housing

Dimming Option:

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 for additional specifications.

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 drivers to operate non-LED loads please contact us to discuss compatibility.







Constant Current Models

Model	Output Current (mA ±3%)	Output Voltage Range (Vdc)	Max. Output Power (W)	Typical Efficiency
LED90W-257-C0350-XX	350	85-257	90	92%
LED90W-200-C0450-XX	450	66-200	90	92%
LED90W-128-C0700-XX	700	42-128	90	92%
LED90W-085-C1050-XX	1050	28-85	90	91%
LED90W-064-C1400-XX	1400	21-64	90	91%
LED90W-056-C1600-XX	1600	18-56	90	91%
LED90W-048-C1875-XX	1875	16-48	90	91%
LED90W-036-C2500-XX	2500	12-36	90	90%
LED90W-030-C3000-XX	3000	10-30	90	90%
LED90W-027-C3330-XX	3330	9-27	90	89%
LED90W-025-C3500-XX	3500	8-25	90	89%
LED90W-022-C4090-XX	4090	7-22	90	89%
LED90W-020-C4500-XX	4500	7-20	90	88%
LED90W-018-C5000-XX	5000	6-18	90	87%
LED90W-015-C6000-XX	6000	5-15	90	87%

-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
LED90W-015	15	1500-6000	90	87%
LED90W-018	18	1250-5000	90	87%
LED90W-020	20	1125-4500	90	88%
LED90W-022	22	1023-4090	90	89%
LED90W-025	25	875-3500	90	89%
LED90W-027	27	833-3330	90	89%
LED90W-030	30	750-3000	90	90%
LED90W-036	36	625-2500	90	90%
LED90W-048	48	469-1875	90	91%
LED90W-056	56	400-1600	90	91%
LED90W-064	64	350-1400	90	91%
LED90W-085	85	263-1050	90	91%
LED90W-128	128	175-700	90	92%
LED90W-200	200	113-450	90	92%
LED90W-257	257	88-350	90	92%

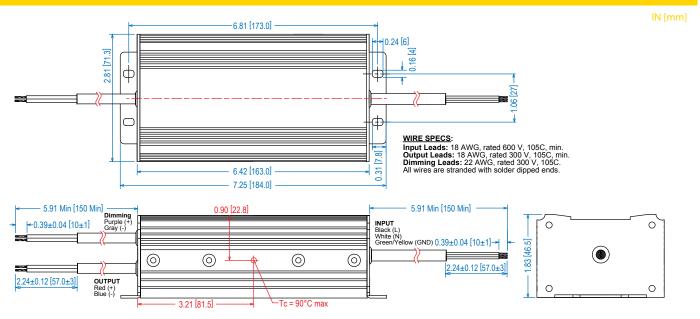
Class 2: US/Canada



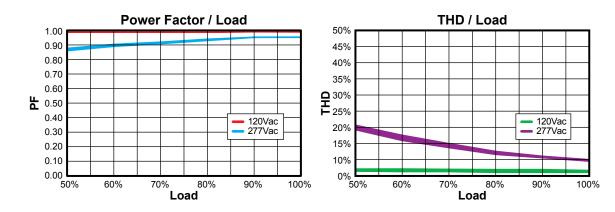
LED90W Series Switch Mode LED Drivers

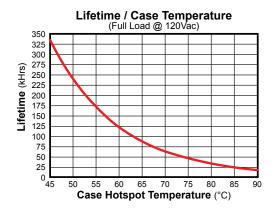
Dimensions





Power Characteristics





Safety Cert.	Standard
UL/CUL	UL8750 & CAN/CSA-22.2
CE	EN 61347
EMC Standard	Notes
FCC, 47CFR Part 15	Class B
EN 61000-3-2	
EN 61000-3-3	Class C
EN 61000-4-5	2 kV/4 kV 8/20μsec

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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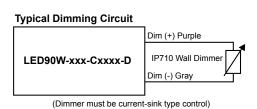
LED90W Series

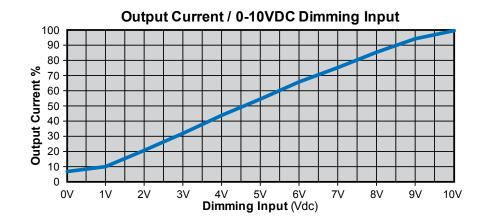
Switch Mode LED Drivers



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

Parameters	Minimum	Typical	Maximum
Source Current out of 0-10V Purple Wire	0 mA	_	2 mA
Absolute Voltage Range on 0-10V (+) Purple Wire	-2.0 V	_	+15 V





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.