

LED-75W Series

Fixed Output and Dimmable
Switch Mode LED Drivers

select **SYNC**[™]
classic



Electrical Specifications

Input Voltage Range:	100-277 Vac Nom. (90-305 V Min/Max)
Input Over-Voltage:	Can endure 320Vac for 48 Hrs, 350Vac for 2 Hrs
Frequency:	50/60 Hz Nom. (47-63 Hz Min/Max)
Power Factor:	>0.90 @ full load, 100V through 277V
Inrush Current:	<30.0 Amps max @ 230 Vac, cold start 25°C
Input Current:	1.00 Amps max
Maximum Power:	75W
Current Accuracy:	± 1% Over input line variation
Load Regulation:	± 3%
THD:	≤ 20% @ full load
Leakage Current:	400 µA Typical
Hold Up Time:	Half Cycle

Protections

Over-voltage	Over-Voltage, Over-Current
Short Circuit	Auto Recovery

Environmental Specifications

Maximum Case Temp.	90°C
Minimum Starting Temp:	-30°C
UL Type TL Rating:	Class 2: 90/62°C; Non-Class 2: 90/67°C
Storage Temperature:	-40°C to +85°C
Humidity:	5% to 95%
Cooling:	Convection
Vibration Frequency:	5 to 55 Hz/2g, 30 minutes
Sound Rating:	Class A
MTBF:	478,000 Hours at full load and 40°C ambient conditions per MIL-217F Notice 2
EMC:	FCC 47CFR Part 15 Class B compliant

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

- Total Power: 75 Watts
- Input Voltage: 100-277 Vac Nom.
- UL Dry & Damp Location Rated
- IP66
- High Power Factor
- UL Type HL Rated for Hazardous Locations

Ordering Options:

-D: 0-10V & Resistance dimmable version comes with an extra two wires +Purple/-Gray on the output side. -D 0-10V Dimming is compatible with most quality 0-10V wall dimmers. See page 3 for additional specifications.



Constant Current & Constant Voltage with Isolation Black Magic Thermal Advantage™ Aluminum Housing

Constant Current Models

Model	Output Current (mA ±3%)	Output Voltage Range (Vdc)	Max. Output Power (W)	Typical Efficiency
LED75W-257-C0300-XX	300	85-257	75	91%
LED75W-200-C0350-XX	350	66-200	70	91%
LED75W-128-C0600-XX	600	42-128	75	91%
LED75W-085-C0900-XX	900	28-85	75	90%
LED75W-064-C1200-XX	1200	21-64	75	90%
LED75W-056-C1400-XX	1400	18-56	75	90%
LED75W-048-C1600-XX	1600	16-48	75	90%
LED75W-036-C2100-XX	2100	12-36	75	89%
LED75W-030-C2500-XX	2500	10-30	75	89%
LED75W-027-C2800-XX	2800	9-27	75	88%
LED75W-025-C3000-XX	3000	8-25	75	88%
LED75W-022-C3400-XX	3400	7-22	74.8	88%
LED75W-020-C3750-XX	3750	7-20	75	87%
LED75W-018-C4200-XX	4200	6-18	75	86%
LED75W-015-C5000-XX	5000	5-15	75	86%

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

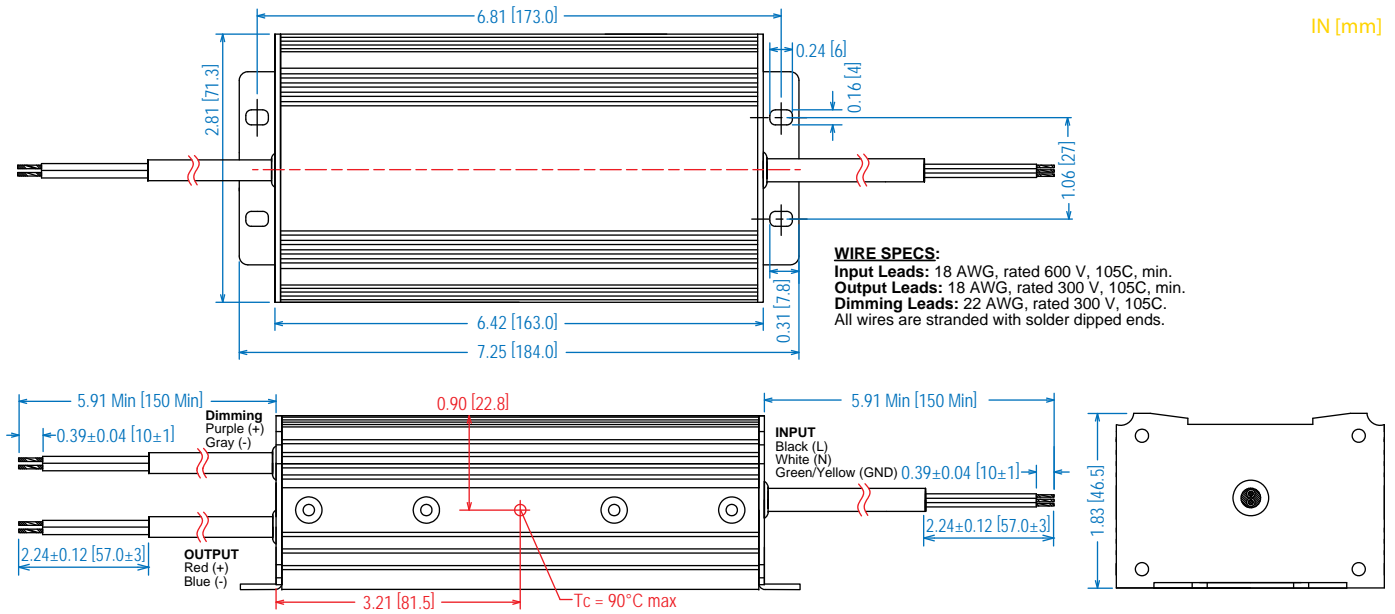
Constant Voltage Models

Model	Output Voltage (Vdc ±5%)	Output Current Range (mA)	Max. Output Power (W)	Typical Efficiency
LED75W-015	15	1250-5000	75	86%
LED75W-018	18	1050-4200	75	86%
LED75W-020	20	938-3750	75	87%
LED75W-022	22	850-3400	74.8	88%
LED75W-025	25	750-3000	75	88%
LED75W-027	27	700-2800	75	88%
LED75W-030	30	625-2500	75	89%
LED75W-036	36	525-2100	75	89%
LED75W-048	48	400-1600	75	90%
LED75W-056	56	350-1400	75	90%
LED75W-064	64	300-1200	75	90%
LED75W-085	85	225-900	75	90%
LED75W-128	128	150-600	75	91%
LED75W-200	200	88-350	70	91%
LED75W-257	257	75-300	75	91%

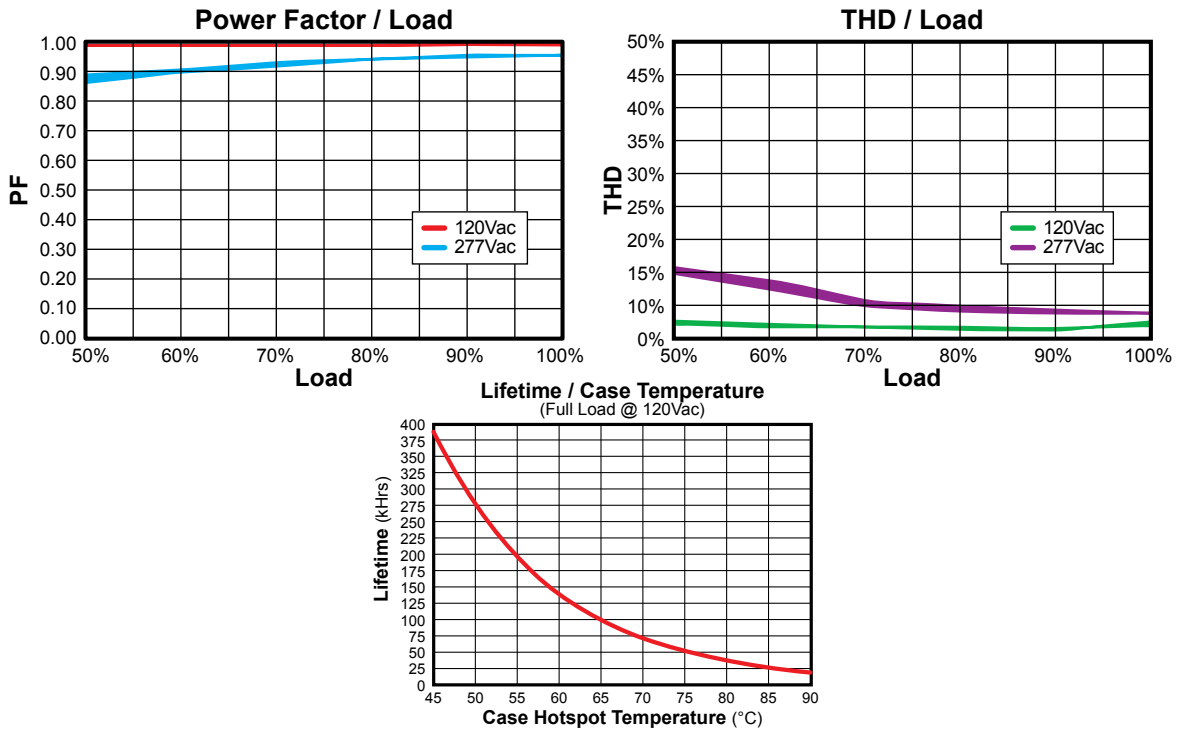
Class 2: US/Canada



Dimensions



Power Characteristics



UL Conditions of Acceptability

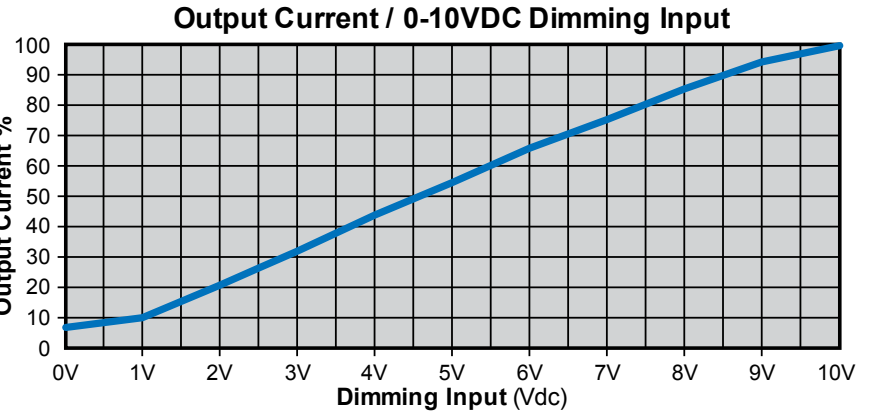
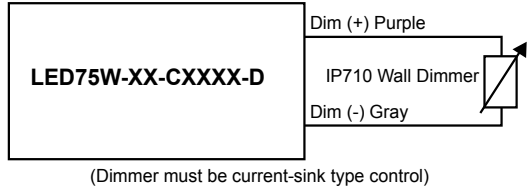
See website for additional information

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.

“-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

Typical Dimming Circuit



Notes:

- 0-10V dimmable version comes with an extra two wires +Purple/-Gray on the output side.
- Compatible with most 0-10V Wall Slide dimmers and direct 0-10V analog signal. Recommended dimmer is Leviton IP710 or equivalent
- 0-10V dimmable version is not intended to dim below about 5% @ 0V or 10% @ 1.0V
- 0-10V dimmable version output will be 100% with Purple/Gray open and minimum with Purple/Gray Shorted.