

LED-60W Series

Fixed Output and Dimmable Switch Mode LED Drivers





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 (Max):	0.90 Amps max	
Maximum Power:	60W	
Current Accuracy:	\pm 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	Output
Over-current	Output
Short Circuit	Auto Recovery

Environmental Specifications

Max Case Life Temp: (5 year warranty)	73°C
Maximum Case Temp (UL):	90°C
Minimum Starting Temp:	-30°C
UL Type TL Rating:	Class 2: 90/54°C; Non-Class 2: 90/51°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:	418,000 Hours at full load and 40°C ambi- ent conditions per MIL-217F Notice 2
EMC:	FCC 47CFR Part 15 Class B compliant

- Total Power: 60 Watts
- 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
- UL Sign Components Manual (S.A.M. Models)

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.

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 ±3%)	Output Voltage Range (Vdc)	Max. Output Power (W)	Typical Efficiency
LED60W-170-C0350-XX	350	56-170	59.5	92%
LED60W-134-C0450-XX	450	44-134	60	92%
LED60W-086-C0700-XX	700	28-86	60	92%
LED60W-058-C1050-XX	1050	19-58	60	91%
LED60W-048-C1250-XX	1250	16-48	60	91%
LED60W-043-C1400-XX	1400	14-43	60	91%
LED60W-036-C1670-XX	1670	12-36	60	91%
LED60W-027-C2300-XX	2300	9-27	60	90%
LED60W-024-C2500-XX	2500	8-24	60	90%
LED60W-022-C2720-XX	2720	7-22	59.8	89%
LED60W-020-C3000-XX	3000	7-20	60	89%
LED60W-018-C3330-XX	3330	6-18	59.9	88%
LED60W-015-C4000-XX	4000	5-15	60	87%
LED60W-012-C5000-XX	5000	4-12	60	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
LED60W-012 •	12	1250-5000	60	87%
LED60W-015	15	1000-4000	60	87%
LED60W-018	18	833-3300	59.9	88%
LED60W-020	20	750-3000	60	89%
LED60W-022	22	680-2720	59.8	89%
LED60W-024 🖕	24	625-2500	60	90%
LED60W-027	27	575-2300	60	90%
LED60W-036	36	418-1670	60	91%
LED60W-043	43	350-1400	60	91%
LED60W-048	48	313-1250	60	91%
LED60W-058	58	263-1050	60	91%
LED60W-086	86	175-700	60	92%
LED60W-134	134	113-450	60	92%
LED60W-170	170	88-350	59.5	92%

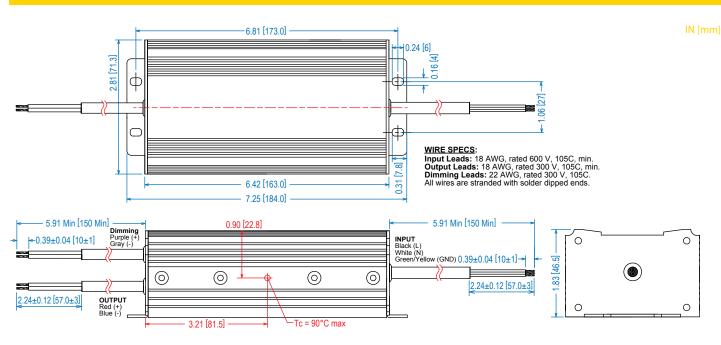
Indicates S.A.M. Class 2: US/Canada



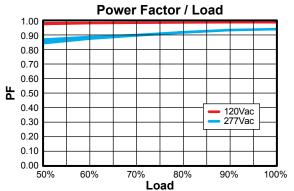
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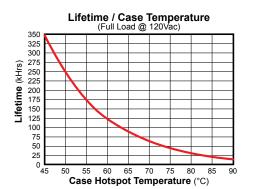


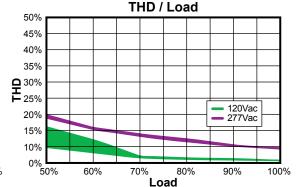
Dimensions



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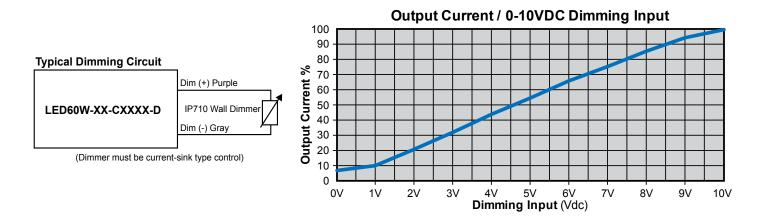
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"-D" Option: 0-10VDC and Resistance Dimming

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.