



LED-25W HL Series

Hazardous Location, Fixed Output and Dimmable

Rev 07-19-2017



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 @ ≥ 70% load 100-230V, ≥ 88% load 277V
Inrush Current:	<15.0 Amps max @ 230 Vac, cold start 25°C
Input Current (Max):	0.25 Amps max @ 120 Vac, full load
Maximum Power:	25W
Current Regulation:	± 3% Over input line variation
Load Regulation:	± 3%
THD:	≤ 20% @ ≥ 70% load 100-230V, ≥ 80% load 277V
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
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:	482,000 Hours @ full load, 40°C per MIL-217F Notice 2
Weight:	7.0 oz. (198 grams)

-X indicates lead options. B for bottom leads, S for side leads.

-Y indicates dimming options are available. See options below. Blank = fixed current output

- Total Power: 25 Watts
- Input Voltage: 100-277 Vac Nom.
- UL Dry & Damp Location Rated
- IP66
- High Power Factor
- UL Type HL Rated for Hazardous Locations
- Black Magic Thermal Advantage™ Plastic Housing

Safety Cert.	Standard
UL/CUL	UL8750
CSA	22.2
CE	EN61347
EMC Standard	Notes
EN61000-3-2	
EN61000-3-3	Class C
FCC, 47CFR Part 15	Class B
EN55015	



Constant Current Models

Model	Current Out (mA ±4%)	Voltage Out, Range (Vdc)	Power Out Max (W)	Typical Efficiency
LED25W-72-C0350-HL-XY	350	24-72	25	86%
LED25W-62-C0400-HL-XY	400	21-62	24.8	85%
LED25W-56-C0450-HL-XY	450	19-56	25	84%
LED25W-45-C0560-HL-XY	560	13-45	25	84%
LED25W-40-C0620-HL-XY	620	13-40	24.8	84%
LED25W-36-C0700-HL-XY	700	12-36	25	83%
LED25W-28-C0850-HL-XY	850	10-28	23.8	82%
LED25W-24-C1040-HL-XY	1040	8-24	25	82%
LED25W-20-C1250-HL-XY	1250	7-20	25	82%
LED25W-18-C1400-HL-XY	1400	6-18	25	81%
LED25W-16-C1560-HL-XY	1560	6-16	25	81%
LED25W-14-C1750-HL-XY	1750	5-14	24.5	80%
LED25W-12-C2080-HL-XY	2080	4-12	25	78%

Constant Voltage Models

Model	Voltage Out (Vdc ±5%)	Current Out Range (mA)	Power Out Max (W)	Typical Efficiency
LED25W-12-HL-X	12	520-2080	25	81%
LED25W-14-HL-X	14	438-1750	24.5	82%
LED25W-16-HL-X	16	390-1560	25	82%
LED25W-18-HL-X	18	360-1400	25	82%
LED25W-20-HL-X	20	313-1250	25	83%
LED25W-24-HL-X	24	260-1040	25	83%
LED25W-28-HL-X	28	213-850	23.8	83%
LED25W-36-HL-X	36	175-700	25	84%
LED25W-40-HL-X	40	155-620	24.8	84%
LED25W-45-HL-X	45	140-560	25	84%
LED25W-56-HL-X	56	113-450	25	84%
LED25W-62-HL-X	62	100-400	24.8	85%
LED25W-72-HL-X	72	88-350	25	86%

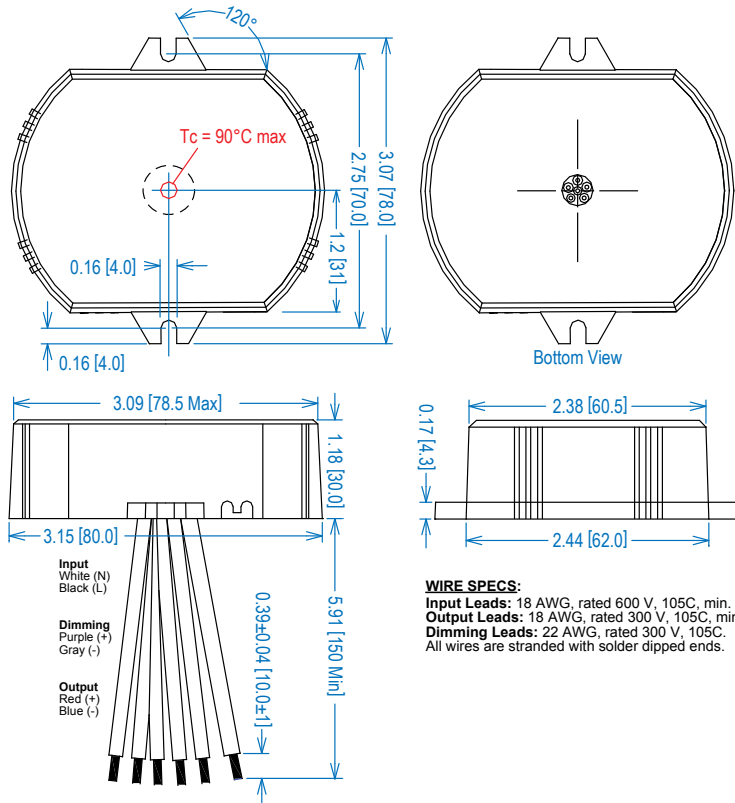
Class 2: US/Canada



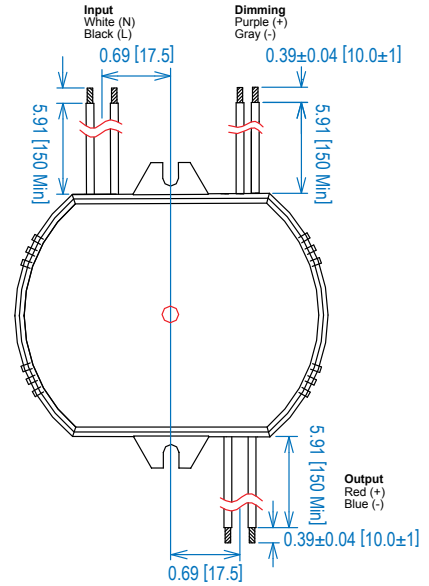
Dimensions

IN [mm]

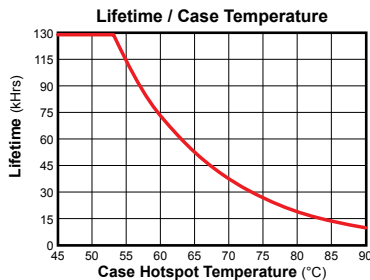
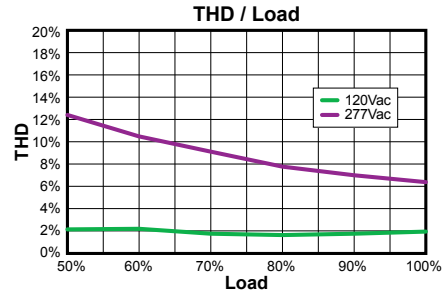
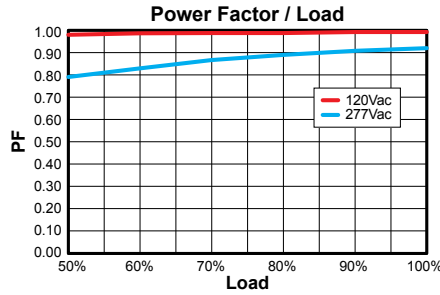
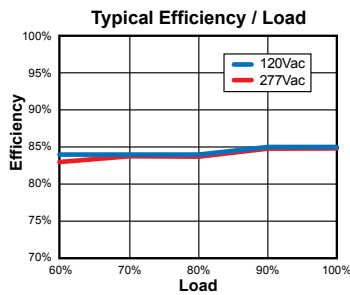
Standard “-BY” Bottom Leads Configuration:



“-SY” Optional Side Leads Configuration:



Power Characteristics



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.

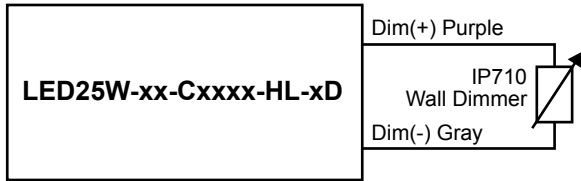
UL Conditions of Acceptability

See website for additional information

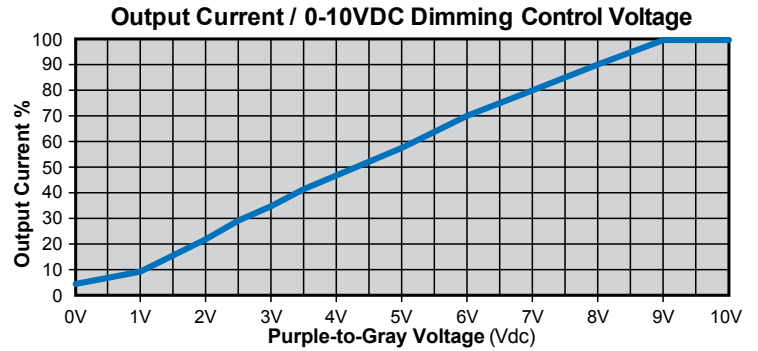
“-D” Option: 0-10VDC and Resistance Dimming

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



(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 dimmers. 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.