



LED-25W HL Series-- Hazardous Location, Fixed Output and Dimmable Switch Mode LED Drivers Constant Current & Constant Voltage with Isolation Black Magic Thermal Advantage™ Plastic Housing

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:	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
Output Protection:	Over-Voltage, Over-Current, Short Circuit (Auto Recovery) plus Internal Thermal Protection (Hiccup Mode)

Environmental Specifications

Minimum Starting Temp:	-30°C
Maximum Case Temp.	90°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

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.



- 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
- Rated for Hazardous Locations

Constant Current - Product Specifications

Model Number	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 - Product Specifications

Model Number	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

Sign Components Manual



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.

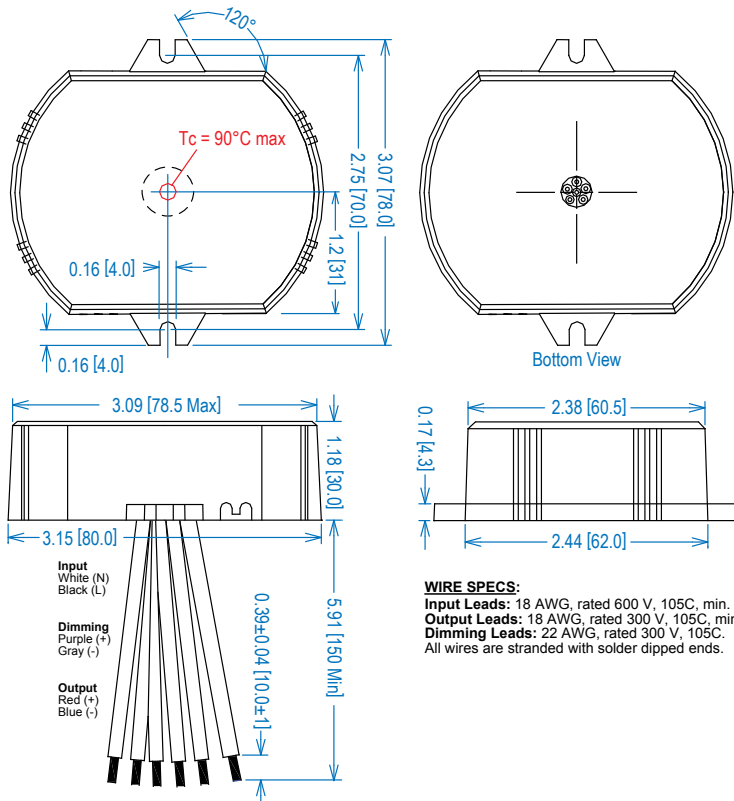
Specifications subject to change without notice.

Rev 10-13-16



Dimensions - Inches (mm)

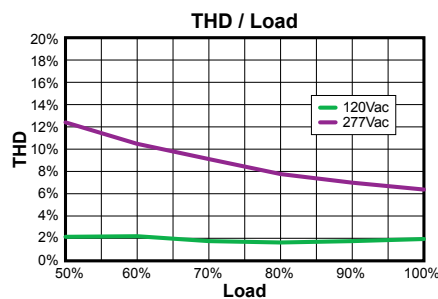
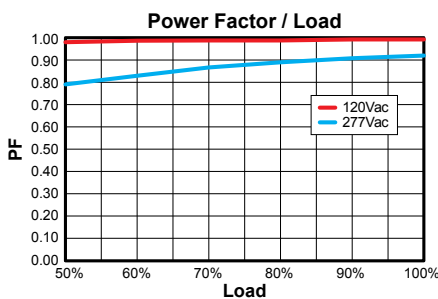
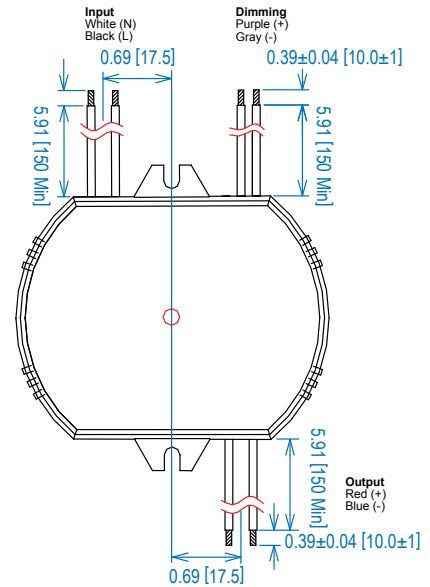
Standard "-BY" Bottom Leads Configuration:



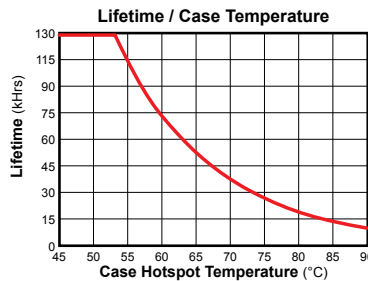
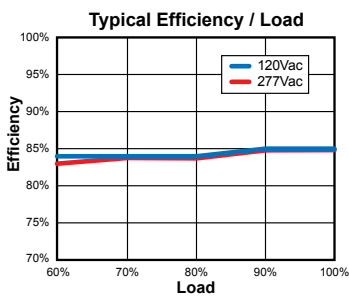
WIRE SPECS:

Input Leads: 18 AWG, rated 600 V, 105C, min.
Output Leads: 18 AWG, rated 300 V, 105C, min.
Dimming Leads: 22 AWG, rated 300 V, 105C.
 All wires are stranded with solder dipped ends.

"-SY" Optional Side Leads Configuration:



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	



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.

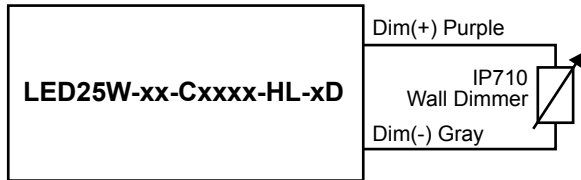
UL Conditions of Acceptability

See website for additional information

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

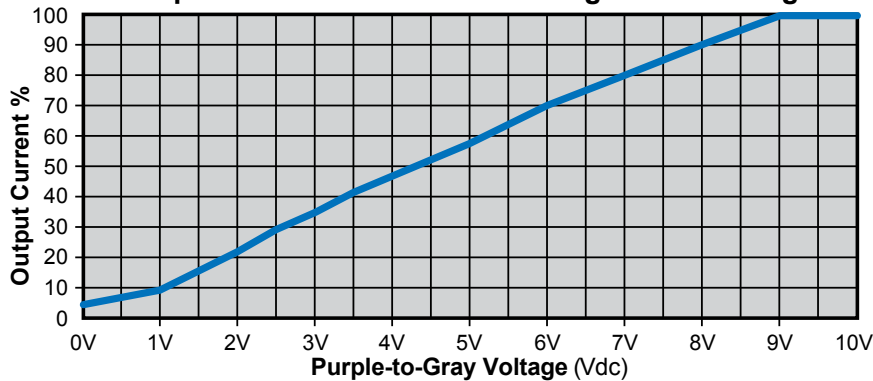
Parameters	Minimum	Typical	Maximum
Source Current out of 0-10V Purple Wire	0 mA	—	2 mA
Absolute Voltage Range on 0-10V (+) Purple Wire	-2.0 V	—	+15 V

Typical Dimming Circuit



(Dimmer must be current-sink type control)

Output Current / 0-10VDC Dimming Control Voltage



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.