

LED-25W HL Series

Hazardous Location, Fixed Output and Dimmable



Electrical Specif	ications
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	Output
Over-current	Output
Short Circuit	Auto Recovery
Environmental 5	Specifications
Max Case Life Temp: (5 year warranty)	72°C
Maximum Case Temp (UL):	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)

• Total Power: 25 Watts

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

- IP66
- · High Power Factor
- Constant Current & Constant Voltage with Isolation
- UL Type HL Rated for Hazardous Locations
- 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.

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.











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

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⁻X indicates lead options. B for bottom leads, S for side leads.
-Y indicates dimming options are available. See options at left. Blank = fixed current output



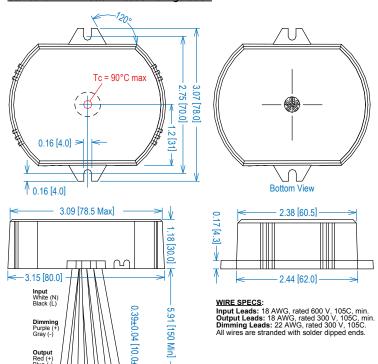
LED-25W HL Series



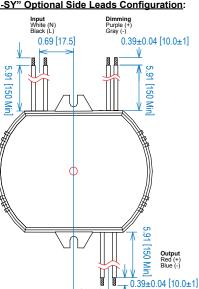
Hazardous Location, Fixed Output and Dimmable

Dimensions

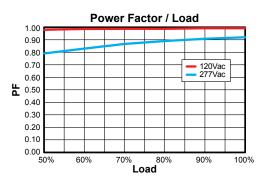
Standard "-BY" Bottom Leads Configuration:

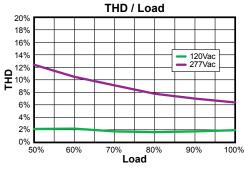


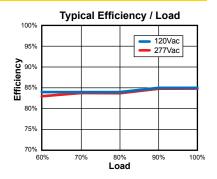
"-SY" Optional Side Leads Configuration:

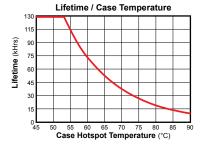


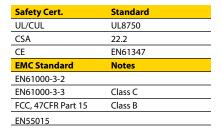
Power Characteristics











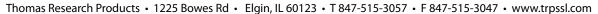
Note: The area under the life-temperature curve represents where the driver has highly reliable operation within specification. Driver performance may drift out of published specifications as the hours of operation exceed the curve at a given temperature. Higher operating temperatures increase the chances 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

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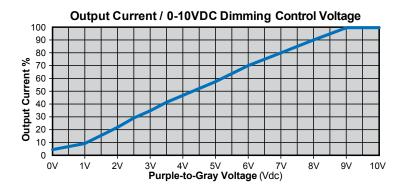
Hazardous Location, Fixed Output and Dimmable

"-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 LED25W-xx-Cxxxx-HL-xD Dim(+) Purple IP710 Wall Dimmer Dim(-) Gray

(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.