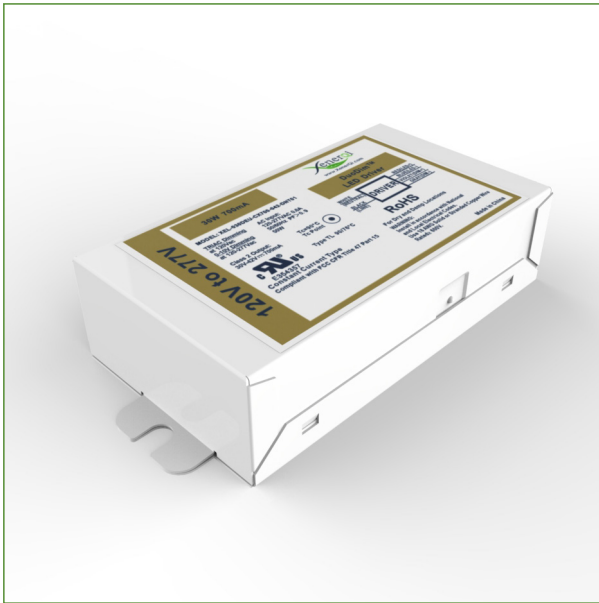




# XEL-030DEU DuoDim™ Commercial Series

10~30W LED Driver Family  
0-10V & TRIAC/ELV, 5%/1% Dimming

Nominal Input Voltage (Vin)	Family Output Power Range (W)	Output Voltage Range (Vout)	Output Current Range (A)	Efficiency (%)	UL Max Case Temp. Tc (°C)	THD (%)	Power Factor	Dimming Method	Dimming Range (%)
120~277Vac	8~30W	24~32Vdc 26~42Vdc	0.30~0.70A	≤ 88% (typical)	90°C	< 20%	> 0.9	0-10V & TRIAC/ELV	5/1-100% (% of tout)



## Variants available:

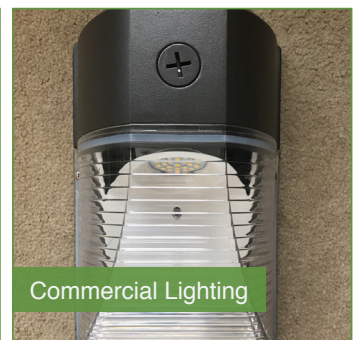
- Side Exit Wires
- Thermally Enhanced Bottom Exit Wires
- Thermally Enhanced Side Exit Wires
- 30~40W DuoDim™

XEL-030DBU  
XEL-030DDU  
XEL-030DAU  
XEL-040D Series

- ✔ **Ideal for Residential & Commercial Lighting**
- ✔ **Optimized for COB's**
- ✔ **Indoor or Outdoor use**
- ✔ **Universal AC input (108~305Vac)**
- ✔ **DuoDim™ Technology (0-10V & TRIAC)**  
(Optional TRIAC only, 1% Phase Dimming)
- ✔ **Enables Energy Star & DLC compliant fixtures**
- ✔ Turn on/off in less than 500 milliseconds
- ✔ Built-in Commercial grade Surge protection
- ✔ Type TL UL Driver
- ✔ Class A Noise Rating
- ✔ Integrated over voltage & open load, over current, short circuit & temperature protection
- ✔ Turn on & Full power operation between -30°C to +60°C ambient <sup>1</sup>
- ✔ XenerQi Industry Leading 5 Year True Warranty™ <sup>2</sup>
- ✔ Class 2 power supply
- ✔ Complies to FCC CFR Title 47 Part 15

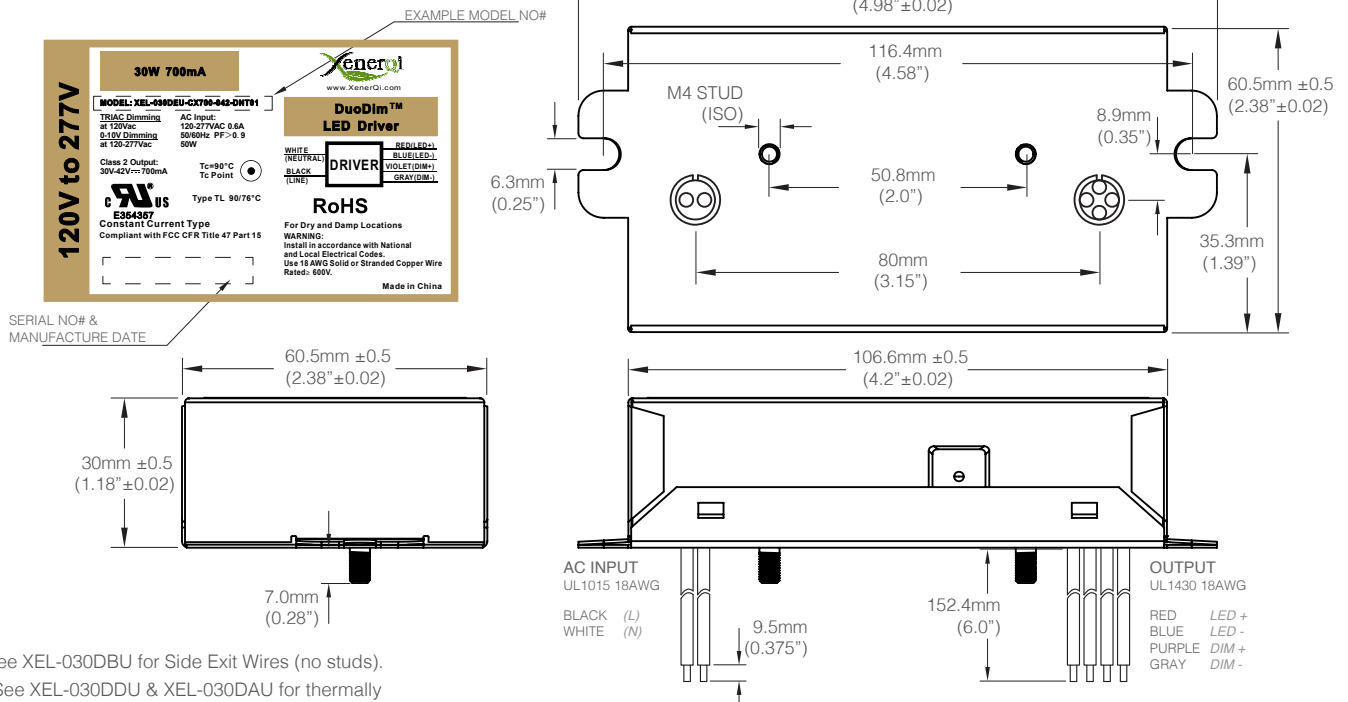
See product specific data pages for details.

## Typical Applications



# Mechanical Drawings-Dimensions

(not to scale)



\*See XEL-030DBU for Side Exit Wires (no studs).

\*\*See XEL-030DDU & XEL-030DAU for thermally enhanced case types.

Case		Wire Dimensions	
<b>Material</b>	Steel	<b>Wire Gauge</b>	18AWG
<b>Unit Weight</b>	See variant pages for details <sup>8</sup>	<b>Wire Length</b>	152.4mm (±3mm) / 6" (±0.12")
<b>Dimensions</b>	126.5mm x 60.5mm x 30mm / 5.0" x 2.4" x 1.2"	<b>Strip Length</b>	9.5mm (±0.5mm) / 0.375" (±0.02")
<b>Recommended Fixings</b> 2x M6*8mm / 12-24*5/15" Fasteners			

## Installation Guide

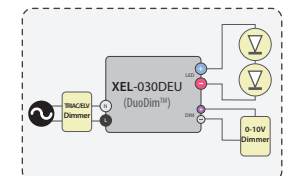
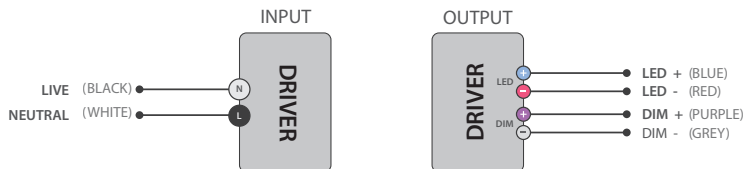
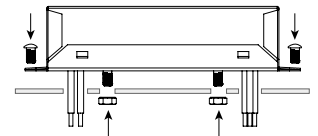
### Mounting & Wiring Diagrams



**WARNING: TO REDUCE THE RISK OF FAILURE / INJURY:**

DRIVER MUST BE INSTALLED IN LUMINAIRE AND GROUNDED IN ACCORDANCE WITH THE LOCAL CODES. DRIVER CASE MUST BE ELECTRICALLY GROUNDED. FAILURE TO DO SO MAY RESULT IN SERIOUS INJURY AND/ OR DAMAGE TO THE SYSTEM.

Fix using 2 M6 screws for recommended mounting.



Wires	Colors	Type	Wires	Colors	Type
<b>Input</b>	White (Neutral)	UL1015 AWG 18	<b>Dimming</b>	Purple (Dim +)	UL1015 AWG 18
	Black (Line)	UL1015 AWG 18		Grey (Dim -)	UL1015 AWG 18
<b>Output</b>	Red (Positive)	UL1430 AWG 18			
	Blue (Negative)	UL1430 AWG 18			

## Specification Data

Output	DC Voltage Range	24 ~ 42 Vdc (full power 30 ~ 42dc)
	Optimized Vf Range <sup>6</sup>	36 ~ 38 Vdc (for 42V max) / 28 ~ 30 Vdc (for 32V max)
	Rated Current Range	0.30 ~ 0.70 A (not dimmed - see specific model pages)
	Rated Power	30W max
	Line Regulation <sup>3</sup>	±5%
	Load Regulation <sup>3</sup>	±5%
	Turn On/Off Time	< 500ms (at full load)
Input	Voltage Range <sup>4</sup>	120 ~ 277Vac Nominal (108 ~ 305Vac Operational)
	Frequency Range	47 ~ 63 Hz
	Power Factor	PFC > 0.9 at ≥ 75% of full power <sup>4</sup>
	THD	THD < 20% at ≥ 75% of full power <sup>4</sup>
	Typical Inrush Current	< TBC (per ANSI test method. Compliant with NEMA410-2015)
Dimming	Mode A (0-10V)	DC Dimming control: 0-10Vdc (5%) Sink / Source
	Mode B (Phase cut)*	TRIAC/ELV Phase cut dimming (1%)
	TRIAC Support	Forward Reverse Phase & ELV Dimmers
	0-10V Source Current	260µA (Isolated)
	Compatibility	IEC Compliant
Protection	Short Circuit	Auto-restart (after fault removed)
	Over Voltage & Open Load	Vout < 60V (Class-2)
	Over Current	Inherently limited over operational range
	Over Temperature	Current foldback at hotspot greater than 85°C (shut down at <100°C) <sup>5</sup>
Environment	Working Temperature	-30°C ~ 60°C ambient <sup>1</sup> (T <sub>case</sub> rated for 90°C)
	Working Humidity	20% ~ 90% RH non-condensing
	UL Rating	Dry / Damp location use
	Storage Temperature	-40°C ~ 85°C ambient
	Storage Humidity	10% ~ 90% RH non-condensing
	Impact Resistance	1 g/s
	Vibration	3 ~ 50Hz 1g (for 30 minutes)
	Operating Life	50,000 Hours at Full Load & Maximum Hotspot
Safety & EMC	Safety Standards	UL8750, Class 2 (UL1310), Type TL rated
	Noise Rating	Class A (Less than 24dB measured at 1 meter) <sup>3,7</sup>
	EMI Conduction & Radiation	Compliant with FCC CFR Title 47 Part 15 Class A at 120/277Vac & Class B at 120V Compliant with European CE requirements
	EMC Susceptibility	EN61000-4-3, EN61000-4-2, EN61000-4-4
	Transient Immunity	2kV/1kA Combination, 2.5kV Ringwave Modes: L-N, L-G, N-G

<sup>1</sup> Ambient is estimated. Actual temperatures determined by trigger point temperature at driver hotspot. Assumed case is mounted on flat surface.

<sup>2</sup> True Warranty refers to operation at full load and max hotspot temperature. For specific warranty details refer to XenerQi published warranty document.

<sup>3</sup> Guaranteed only within nominal input range.

<sup>4</sup> Critical parameters guaranteed over nominal input range.

<sup>5</sup> Shutdown requires power cycle to recover.

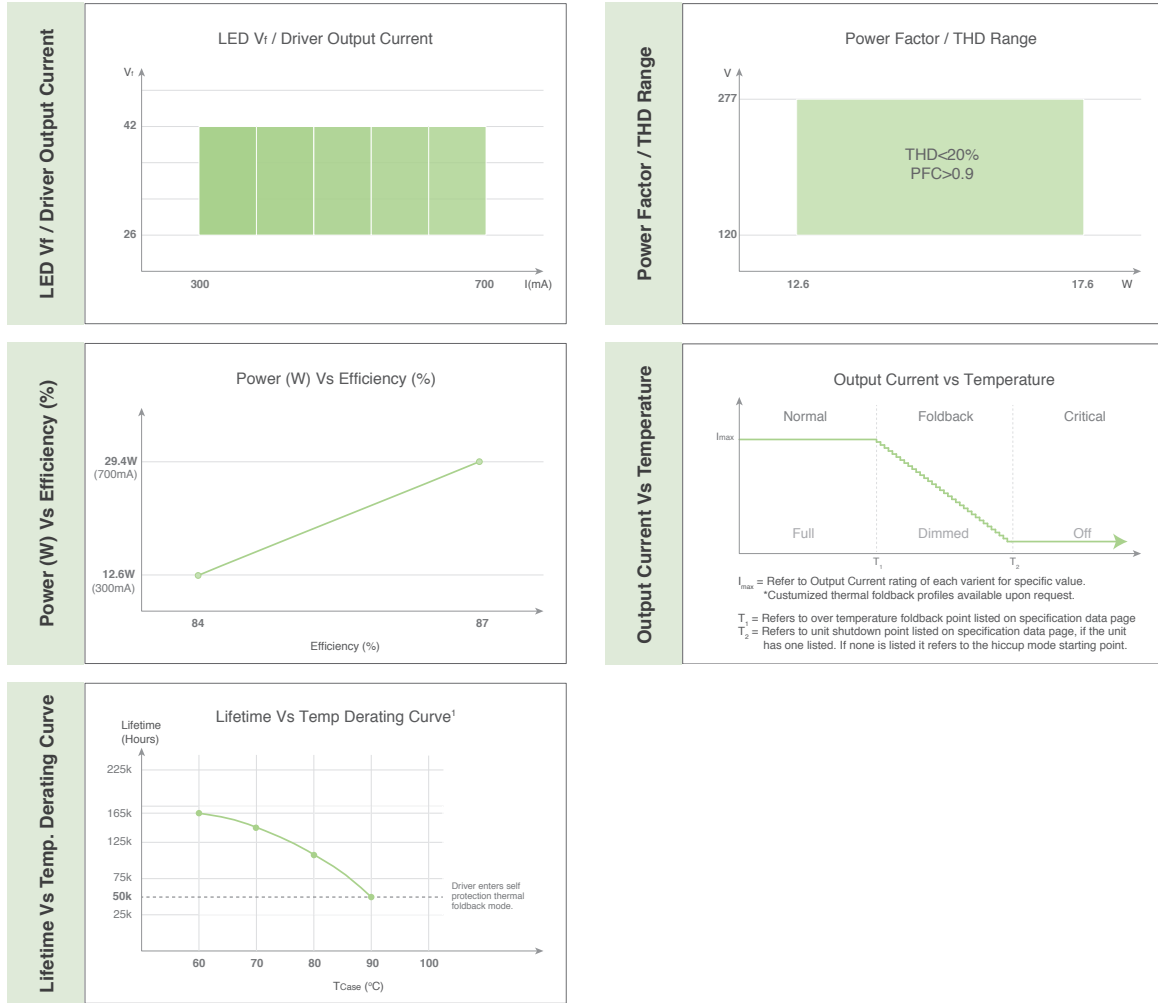
<sup>6</sup> Units optimized for steady state forward voltage as per "Optimized Vf Range" value in specification data, and for specific LED loads. LED loads available upon request.

<sup>7</sup> Tested under two conditions: with & without dimmer connected.

<sup>8</sup> Value listed is family maximum or minimum best case value as appropriate & can vary depending on part number.

\* Dimming performance may vary depending on brand and make of dimmer used as well as number of drivers connected to it.

## Operation Performance-Family



ORDER CODE:  
XEL-030DEU-CXXXX-042-XXX01

DNT: DuoDim™  
TNT: TRIAC Only  
XXXX: Current Rating  
(See Available Model Table)

## Available Models

	Part Number	Output Current (mA)	Output Voltage Range (V)	Maximum Efficiency <sup>6</sup>	Max Output (W)
Fixed Output Current Variants (DuoDim™)	XEL-030DEU-CX700-042-DNT01	700	26 ~ 42	87%	29.4W
	XEL-030DEU-CX550-042-DNT01	550	26 ~ 42	87%	23.1W
	XEL-030DEU-CX500-042-DNT01	500	26 ~ 42	84%	21.8W
	XEL-030DEU-CX450-042-DNT01	450	26 ~ 42	85%	18.9W
	XEL-030DEU-CX350-042-DNT01	350	26 ~ 42	84%	14.7W
	XEL-030DEU-CX315-042-DNT01	315	26 ~ 42	85%	13.2W
	XEL-030DEU-CX250-042-DNT01	250	26 ~ 42	84%	10.5W
	Customized Variants available upon request.				

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