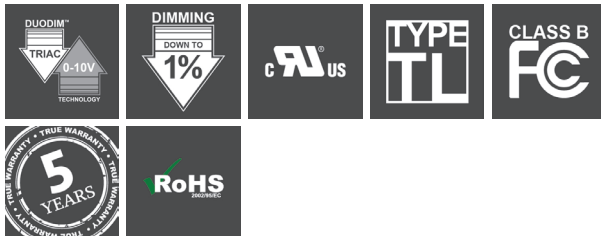
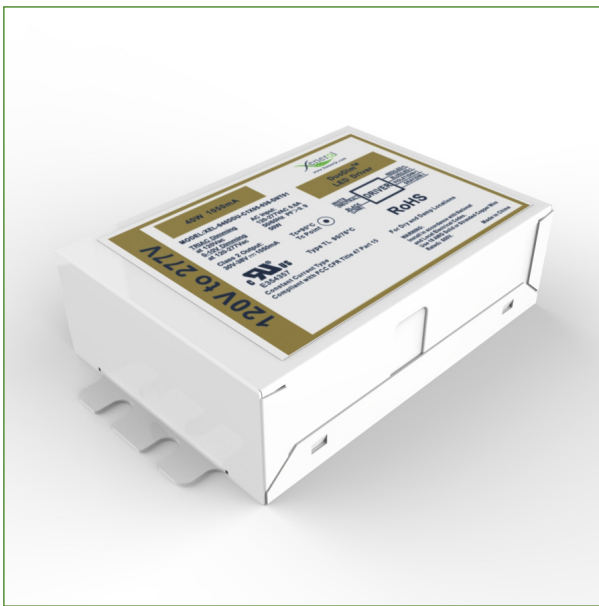




XEL-040DDU DuoDim™ Commercial Series

25~45W 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	25~45W	24~32Vdc 26~42Vdc	0.80~1.05A	≤ 88% (typical)	90°C	< 20%	> 0.9	0-10V & TRIAC/ELV	5/1-100% (% of lout)



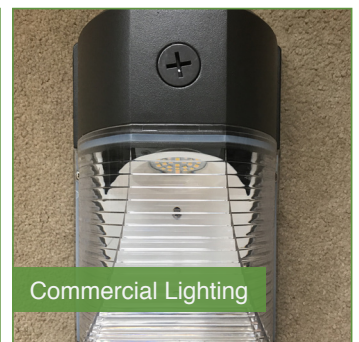
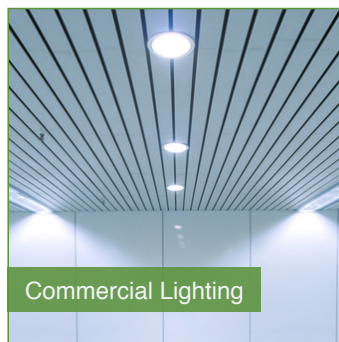
Variants available:
-Side Exit Wires
-< 30W DuoDim™

XEL-040DAU
XEL-030D 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 ¹
- ✔ XenerQi Industry Leading 5 Year True Warranty™ ²
- ✔ Class 2 power supply
- ✔ Complies to FCC CFR Title 47 Part 15

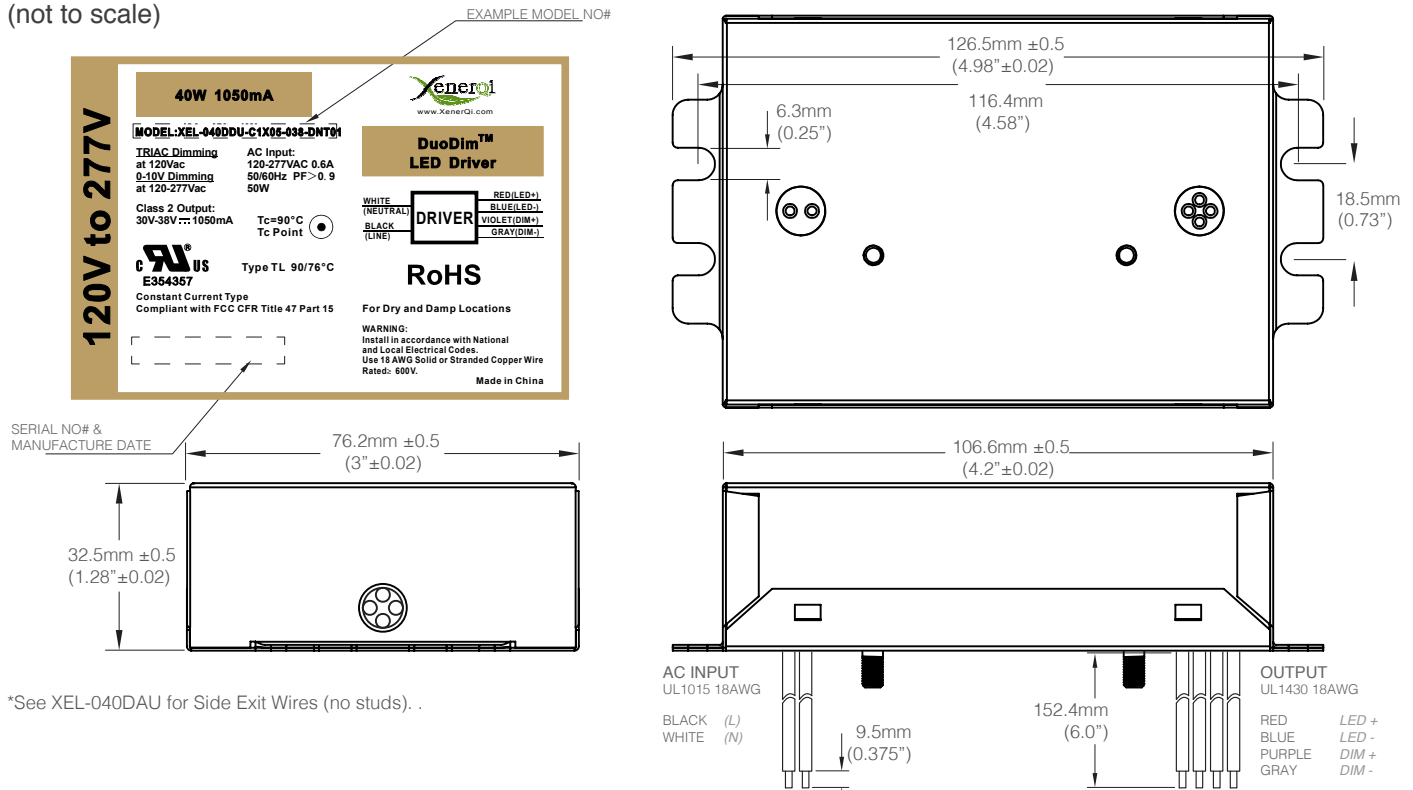
See product specific data pages for details.

Typical Applications



Mechanical Drawings-Dimensions

(not to scale)



*See XEL-040DAU for Side Exit Wires (no studs).

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

Installation Guide

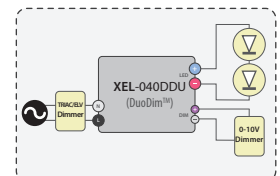
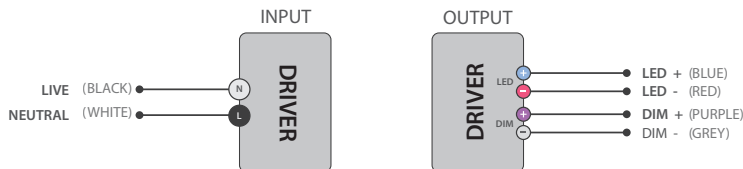
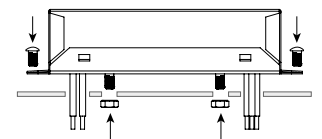
Mounting & Wiring Diagrams



WARNING: TO REDUCE THE RISK OF FAILURE / INJURY:

DRIVER MUST BE INSTALLED IN LUMINAIRE AND GROUNDING IN ACCORDANCE WITH THE LOCAL CODES. DRIVER CASE MUST BE ELECTRICALLY GROUNDING. 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
Input	White (Neutral)	UL1015 AWG 18	Dimming	Purple (Dim +)	UL1015 AWG 18
	Black (Line)	UL1015 AWG 18		Grey (Dim -)	UL1015 AWG 18
Output	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 ⁶	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	45W max
	Line Regulation ³	±5%
	Load Regulation ³	±5%
	Turn On/Off Time	< 500ms (at full load)
Input	Voltage Range ⁴	120 ~ 277Vac Nominal (108 ~ 305Vac Operational)
	Frequency Range	47 ~ 63 Hz
	Power Factor	PFC > 0.9 at ≥ 75% of full power ⁴
	THD	THD < 20% at ≥ 75% of full power ⁴
	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) ⁵
Environment	Working Temperature	-30°C ~ 60°C ambient ¹ (T _{case} 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) ^{3,7}
	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

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

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

³ Guaranteed only within nominal input range.

⁴ Critical parameters guaranteed over nominal input range.

⁵ Shutdown requires power cycle to recover.

⁶ Units optimized for steady state forward voltage as per "Optimized Vf Range" value in specification data, and for specific LED loads.

List of LED loads available upon request.

⁷ Tested under two conditions: with & without dimmer connected.

⁸ 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-040DDU-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 ⁶	Max Output (W)
XEL-040DDU-C1X05-038-DNT01	1050	28 ~ 38	89%	39.9W
XEL-040DDU-CX900-042-DNT01	900	26 ~ 42	87%	37.8W
XEL-040DDU-CX800-042-DNT01	800	26 ~ 42	88%	33.6W
Customized Variants available upon request.				

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