

XLC-KN Series:

KNX Data Secure Constant Current LED Driver

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Product Intro

At MEAN WELL, we take pride in being a global leader in standard power supply solutions. Since introducing our first power supply with KNX technology in 2017, we have been committed to advancing KNX building automation control solutions and continually expanding our range of KNX-compliant products that meet international standards. Following the successful launch of our KNX-standard AC/DC constant current LED driver series (LCM-KN) and constant voltage driver series (PWM-KN), we are excited to introduce the XLC-25/40/60KN series, further enhancing our portfolio of LED drivers with built-in KNX interface protocols.

The XLC-25/40/60KN series is designed as an AC/DC constant current LED driver solution, available in 25W, 40W, and 60W power ratings. Equipped with a KNX interface featuring data secure capabilities, these drivers integrate seamlessly with KNX systems for precise digital lighting control. With an input voltage range of 100–305VAC and adjustable current settings from 350mA to 1700mA (varying by model), the series delivers outstanding flexibility. Thanks to its high efficiency of up to 90%, the series operates reliably under natural air cooling, with a case temperature range of -25°C to 85°C (or up to 90°C for select models).

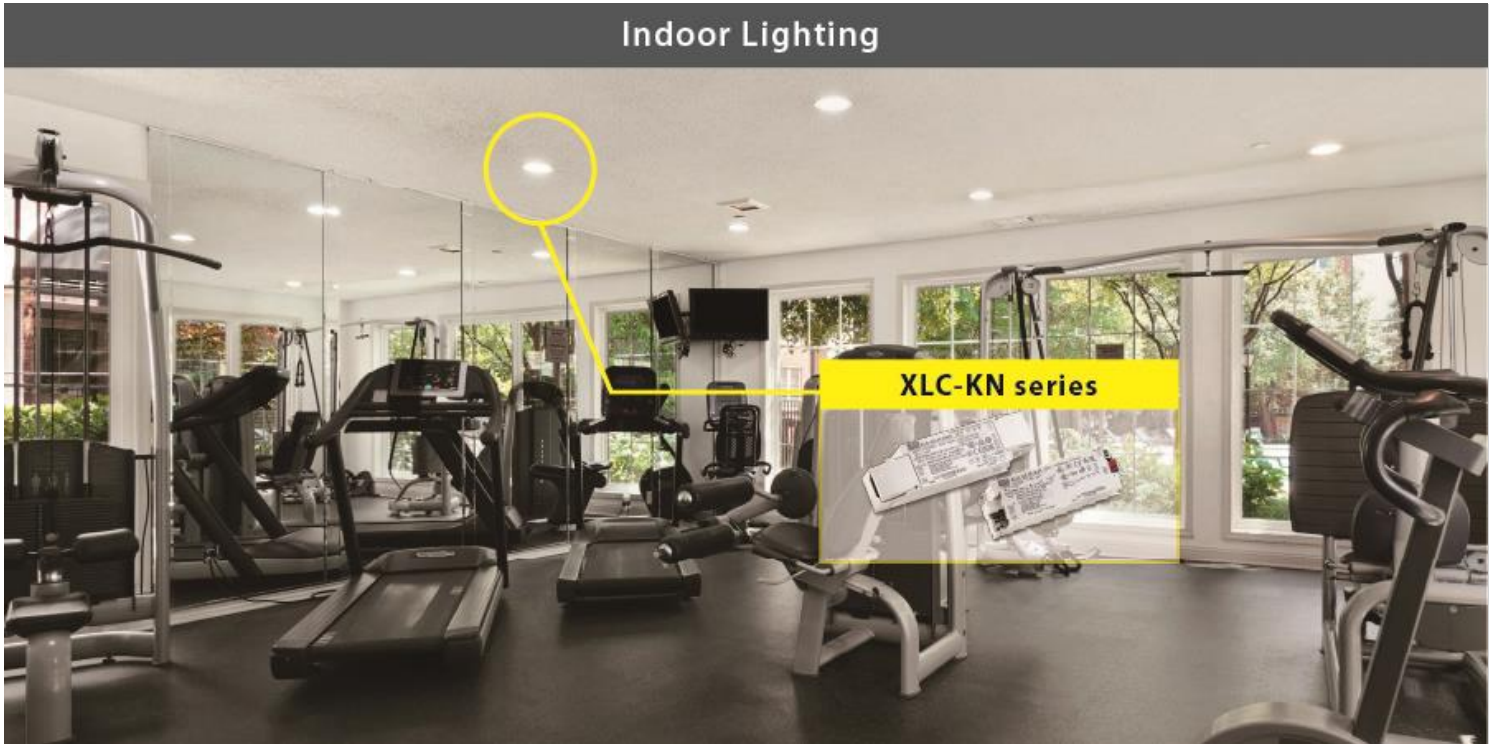
The XLC-25/40/60KN series offers a comprehensive range of features, including standalone push-button dimming, group control for switching and scenes, cumulative runtime monitoring, energy feedback, constant illuminance output, scheduled dimming, power temperature detection, and characteristic curve calibration. These advanced capabilities make it the ideal choice for LED lighting systems in modern smart buildings, reflecting MEAN WELL's dedication to delivering innovative and reliable solutions.

Series	LCM-25/40/60KN			XLC-25/40/60KN		
Wattage	25W	40W	60W	25W	40W	60W
Input Voltage (VAC)	180~277	180~295		100~305		
Output Voltage	6~54V 350~1050mA	2~100V 350~1050mA	2~90V 500~1400mA	9~54V 300~1050mA	9~54V 600~1400mA	9~54V 900~1700mA
Efficiency (Typ.)	85%	90%	91%	88%	88%	90%
Total Harmonic Distortion (@230VAC)	THD<20% (@Load≥50%)	THD < 20% (@ Load ≥ 75%)		THD<10% (@Load≥50%)		THD<20% (@Load≥60%)
Inrush Current (Cold start)	20A			10A		15A
Over-temperature Protection	Output off, automatically recovers after the fault is cleared			Two-stage automatic load reduction, automatically recovers after the fault is cleared		
Dimming Range	6%~100% (0%: Dim OFF)			0.5%~100% (0%: Dim OFF)		
Output Current Setting	DIP switch			ETS software database		
Wiring Differences	Input/output on the same side of the enclosure			Input/output on opposite sides of the enclosure		
Dimensions (L x W x H)	105*68*23 mm	123.5*81.5*23 mm		147 (107) *40*32 mm		176 (136) *45*32 mm
Warranty	3 Years			5 Years		

Features

- Output current levels can be configured through the ETS database
- Flicker-free design compliant with CE ErP directives
- Built-in KNX interface supporting KNX data secure
- Compatible with emergency lighting (EL) applications
- Minimum dimming level of 0.5%
- Integrated Constant Lumen Output (CLO) function
(ETS provides three presets: L70/L80/L90 and customization options)
- Built-in standalone KNX push-dimming interface
- Includes a 5-year warranty

Applications



Order information

