

Conforms to UL1012
 Certified to CSA STD.
 C22.2 No. 107.1



Introduction:

The Zurik EMLV series is Flexfire's most dynamic driver to date. It utilizes electronic technology to enable flicker free dimming. This driver is smaller and lighter than the Zurik MLV series, and it is compatible with more types of dimming technology. Not only is it compatible with magnetic low voltage (MLV) dimmers, it is also compatible with electronic (ELV) dimming technology, giving you more flexibility to power your light design vision.



Features:

- Constant voltage output
- AC Input: 100-130VAC
- High Efficiency: up to 86%
- Auto circuit protection: protected against short circuits, overcurrent faults, overloading, and overheating
- Aluminum housing offering excellent component protection
- Easy installation
- Cooling by free air convection
- Compatible with most forward phase, magnetic low voltage, reverse phase, and electronic low voltage dimmers
- Wide ranging compatibility and flicker-free dimming
- Suitable for LED lighting and sign applications among other uses
- Provided with a junction box for secure input and output connections
- IP66; suitable for indoor and outdoor location use.

SKU		ZRK-EMLV-200-12VDC	ZRK-EMLV-200-24VDC
Output	DC Voltage	12V	24V
	Voltage Tolerance	±0.5V	±0.5V
	Rated Current	16.66A	8.3A
	Rated Power	200W	200W
Input	Voltage Range	100-130VAC	100-130VAC
	Frequency Range	50 ~ 60Hz	50 ~ 60Hz
	Power Factor	0.65 (Fully Loaded)	0.65 (Fully Loaded)
	Efficiency (Typ.)	83%	85%
	AC Current (Max.)	3.2A	3.2A
	Leakage Current	< 0.50mA/120VAC	< 0.50mA/120VAC

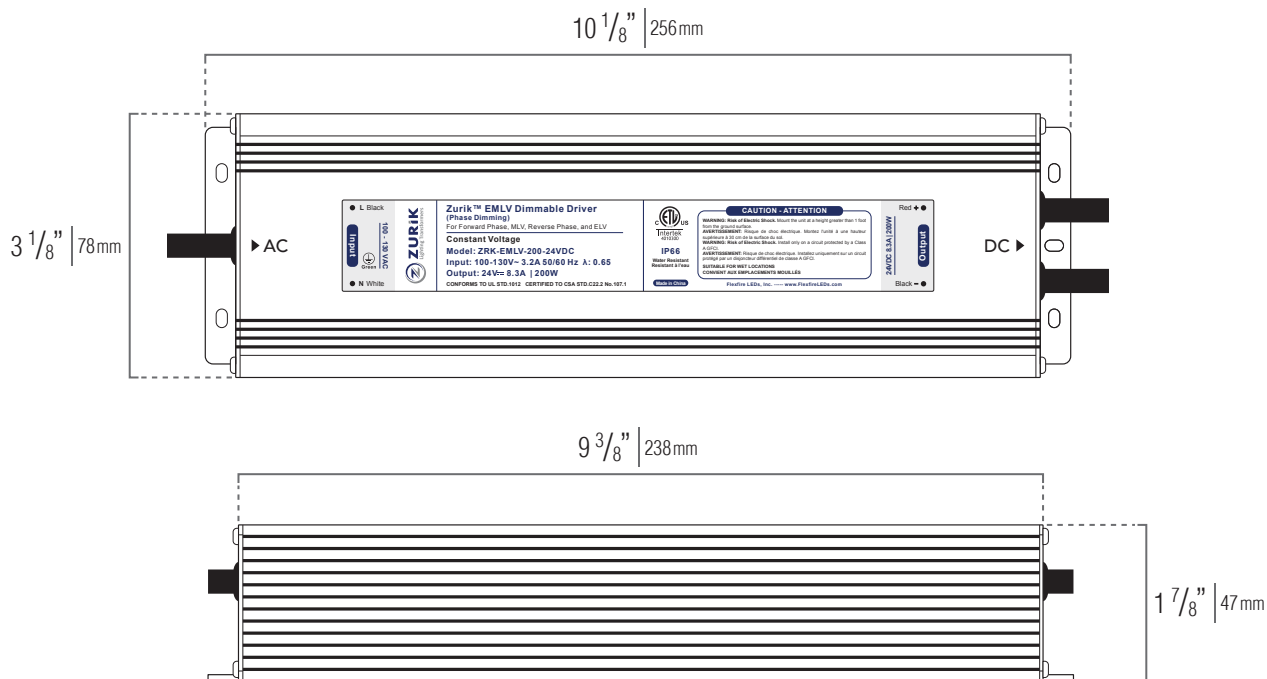
Auto Circuit Protection	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed
	Overcurrent	$\leq 1.2 \times I_{out}$
	Overload	$\leq 120\%$
	Overheat	212°F±18°F (100°C±10°C) Shut down output voltage; recovers automatically after temperature drops below upper threshold.
Environment	Operational Temperature Range	-40°F~140°F (-40~+60°C)
	Working Humidity	20~95%RH, non-condensing
	Storage TEMP. Humidity	-40°F~176°F (-40~+80°C), 10~95%RH
	TEMP. coefficient	$\pm 0.03\%/^{\circ}\text{C}$ [32°F~122°F (0~50°C)]
	Vibration	10~500Hz, 5G 12min./1 cycle, period for 72 min. each along X,Y,Z axes
	Safety standards	Conforms to UL1012, Certified to CSA, STD. C22.2 N° 107.1
Safety & EMC	Withstand Voltage	I/P-O/P: 1500VAC
	Isolation resistance	I/P-O/P: 100MΩ/500VDC/25°C/70%RH
	EMC EMISSION	FCC Part 15 B
	Net Weight	4.91lbs. = 3.30(power supply)+1.61(junction box) [2.23kg=1.5(power supply)+0.73(junction box)]
Other	Size	16"x3.4"x2.4" (L*W*H) [406mm x 87mm x 60mm]
	PWM Frequency	400 Hz.

Notes:

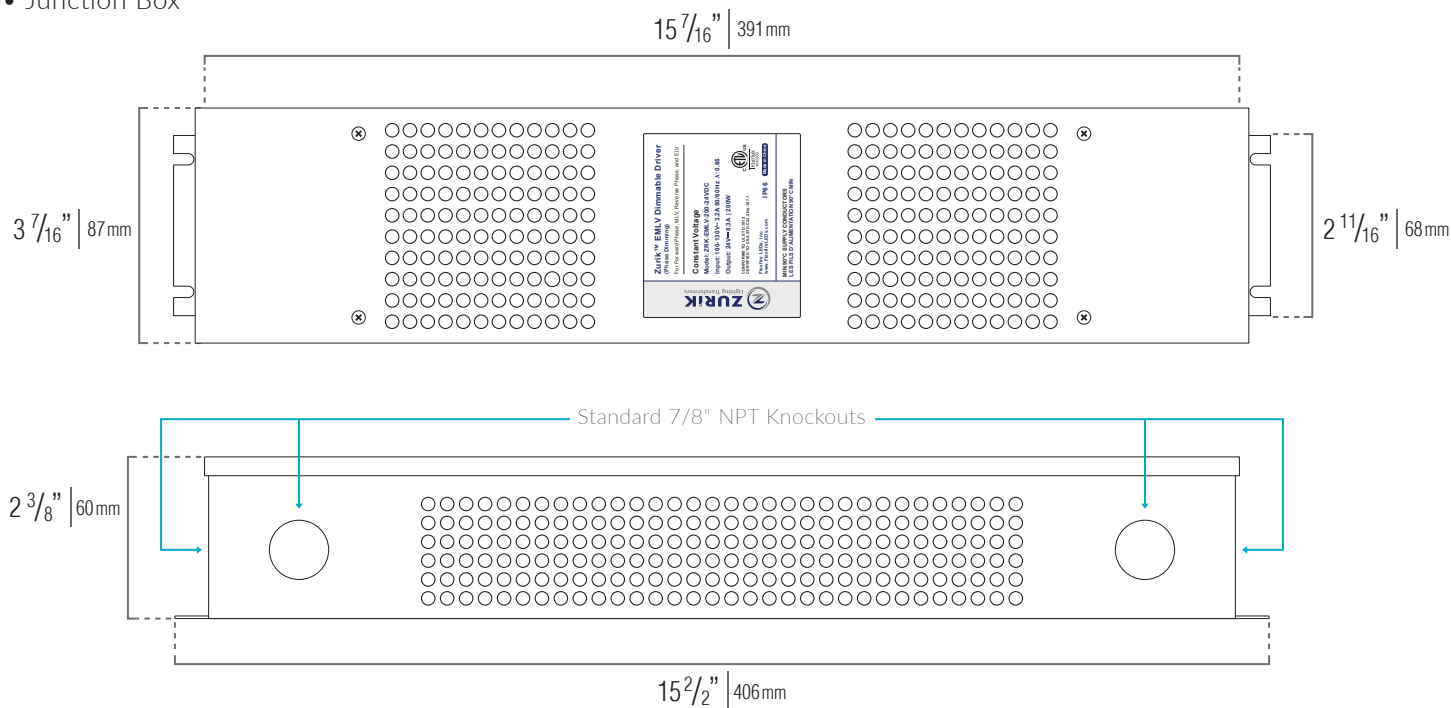
1. All parameters if NOT specially mentioned are measured at 120VAC input, rated load and ambient temperature of 25°C.
2. To extend the life of the power supply, keep the load below 90%.
3. Loading on the power supply should be within 5-100%. Do not load below 5% or above 100%.
4. Loading on the AC dimmer should not be below 40% in order to extend the life of the dimmer.

Physical Dimensions

- Transformer

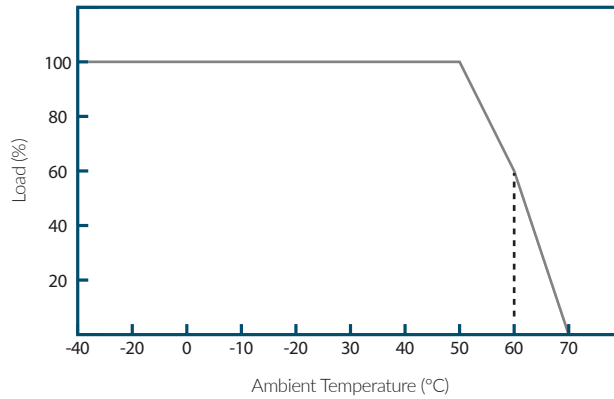


- Junction Box



Product will arrive inside the Junction Box. Please pay attention to Junction Box dimensions.

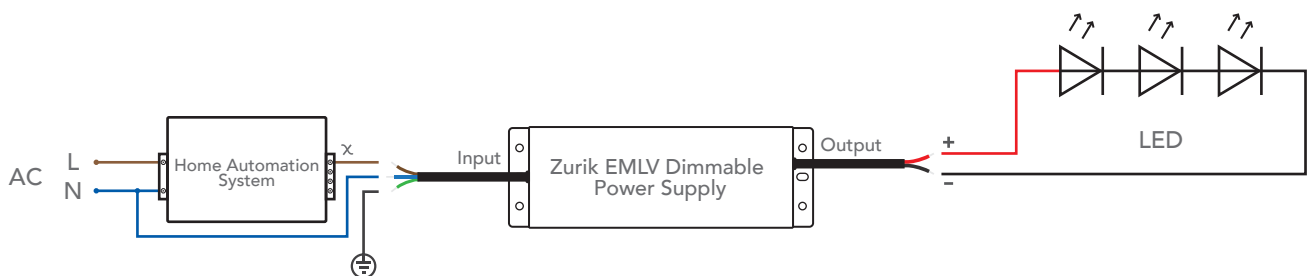
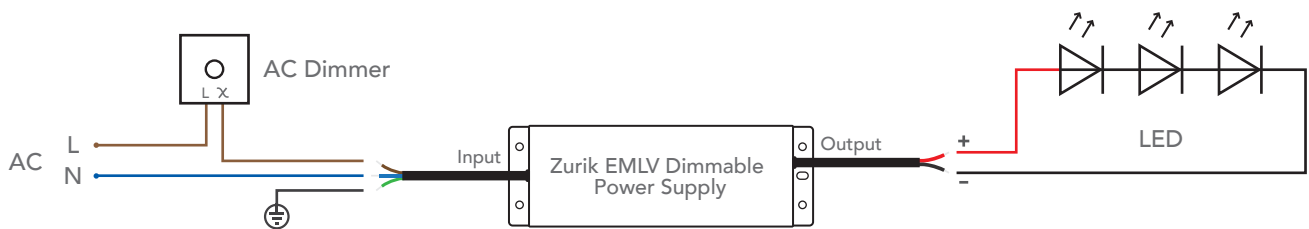
Derating Curve



To extend the power supply's life, refer to the Derating Curve above and derate according to the ambient temperature

Connection Diagrams

- Connection diagram using a single driver



- Connection diagram using multiple drivers

