



Energy Recovery Products™

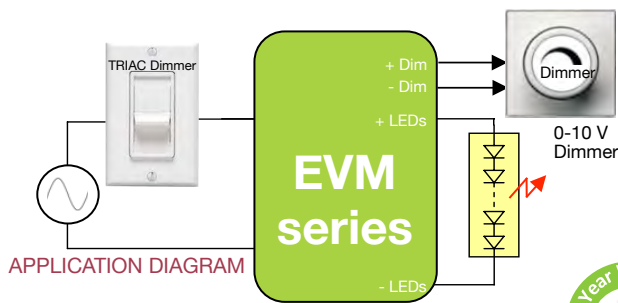
EVM Series

60-120 W

Tri-Mode Dimming™ (0-10 V & TRIAC/ELV) Constant Current LED Drivers with Fast Startup Time

Input Voltage	Max. Output Power	Output Voltage	Output Current	Efficiency	Max. Case Temperature	THD	Power Factor	Dimming Method	Dimming Range	Startup Time
120 to 277 Vac nominal	120 W	30 to 84 Vdc	1.05 to 3.0 A CC	up to 87% typical	90°C (measured at the hot spot)	< 20%	> 0.9	Forward-Phase, Reverse-Phase & 0 - 10V	1 - 100% (% of Iout)	400 ms

CC: Constant Current



APPLICATION DIAGRAM



METAL CASE
L 144 x W 70 x H 40 mm
(L 5.67 x W 2.76 x H 1.57 in)



FEATURES

- Compatible with TRIAC (forward-phase or leading-edge), ELV (reverse-phase or trailing-edge) and 0-10 V dimmers
- TRIAC and ELV dimming only at 120 Vac
- Outdoor surge protection: 3 kV line to line/6 kV line to earth
- Linear 0-10V dimming transfer function: 10V=100%, 1V=10%, 0.1V=1%
- Protections: output open load, over-current and short-circuit (hiccup), and over-temperature with auto recovery
- Conducted and radiated EMI: Compliant with FCC CFR Title 47 Part 15 Class B (120 Vac)/Class A (277 Vac) and EN55015 (CISPR 15) at 220/230/240 Vac
- Complies with ENERGY STAR® luminaire specification and DLC (DesignLight Consortium®) technical requirements
- IP20-rated Bottom Leads with Studs metal case with silicone-based potting. Optional IP64 metal case with side leads
- Lifetime: 50,000 hours
- 90°C maximum case hot spot temperature
- Class 2 power supply (only some models)

APPLICATIONS

- Suitable for driving high current COB LEDs such as Cree's CXA3050/3070/3590, Bridgelux' Vero series and modules such as Cree's LMH2 6000/8000
- High Bay Lights
- Metal Halide replacement
- Outdoor LED Lighting
- Industrial LED Lighting
- Tunnels and street lighting
- Wide-area downlights

ERP Part Number	Nominal Input Voltage (Vac)	Iout (mA)	Max Output Power (W)	Output Voltage Range (Vdc)	
				Min	Max
EVM060W: up to 60W					
EVM060W-1400-42-C0B	120 - 277	1400	58.8	30	42
EVM080W: up to 80W					
EVM080W-1750-42	120 - 277	1750	73.5	30	42
EVM080W-1900-42	120 - 277	1900	79.8	30	42
EVM090W: 81-90W					
EVM090W-1050-84 ^[1]	120 - 277	1050	88.2	70	84
EVM090W-1700-48-N1B ^[2]	120 - 277	1700	81.6	37	48
EVM090W-2000-42	120 - 277	2000	84.0	30	42
EVM100W: 91-100W					
EVM100W-1200-80 ^[1]	120 - 277	1200	96.0	66	80
EVM100W-1200-84 ^[1]	120 - 277	1200	100.8	70	84
EVM100W-2100-45	120 - 277	2100	94.5	32	45
EVM110W: 101-110W					
EVM110W-2000-52-N1B ^{[1][3]}	120 - 277	2000	104.0	40	52
EVM110W-2500-42 ^[1]	120 - 277	2500	105.0	30	42
EVM120W: 111-120W					
EVM120W-1400-84 ^[1]	120 - 277	1400	117.6	70	84
EVM120W-2500-45 ^[1]	120 - 277	2500	112.5	32	45
EVM120W-2700-42 ^[1]	120 - 277	2700	113.4	30	42
EVM120W-2800-42 ^[1]	120 - 277	2800	117.6	30	42
EVM120W-3000-40 ^[1]	120 - 277	3000	120.0	30	40

Notes:

1. Not class 2.
2. The EVM090W-1700-48-N1B is specifically intended to drive the Cree LMH2 6000 module and exhibits a customized 0-10V dimming transfer function.
3. The EVM110W-2000-52-N1B is specifically intended to drive the Cree LMH2 8000 module and exhibits a customized 0-10V dimming transfer function.
4. For additional options of output current and output voltage, contact your sales representative or send an email to: SaveEnergy@ERPPowerLLC.com

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Mouser Electronics

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[EVM080W-1900-42](#) [EVM090W-1050-84](#) [EVM090W-2000-42](#) [EVM120W-2700-42](#) [EVM110W-2000-52-N1B](#)
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