



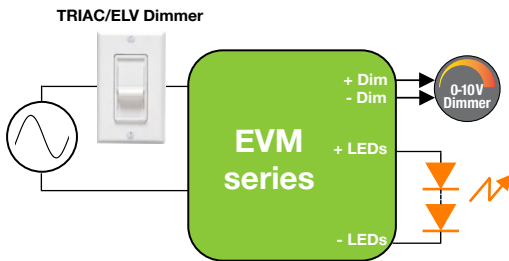
EVM Series

EVM060	51-60 W
EVM080	71-80 W
EVM090	81-90 W
EVM100	91-100 W
EVM110	101-110 W
EVM120	111-120 W

60 to 120 W Constant Current LED Drivers with Tri-Mode Dimming™ (TRIAC, ELV & 0-10)

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 lout)	400 ms

CC: Constant Current



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%
- Optional non-linear 0-10V dimming profile with dim to off
- Lifetime: 50,000 hours @ Tc = 70°C
- 90°C maximum case hot spot temperature
- Class 2 power supply (only some models)
- IP20-rated Bottom Leads with Studs metal case with silicone-based potting. Optional IP64 metal case with side leads
- 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) and Class A (277 Vac)
- Complies with ENERGY STAR® luminaire specification and DLC (Design Light Consortium®) technical requirements
- Worldwide safety approvals

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
EVM060W-1400-42-Z1B ⁽⁴⁾	120 - 277	1400	58.8	30	42
EVM080W: up to 80W					
EVM080W-1250-56	120 - 277	1250	70.0	40	56
EVM080W-1750-42	120 - 277	1750	73.5	30	42
EVM080W-1750-42-Z1B ⁽⁴⁾	120 - 277	1750	73.5	30	42
EVM080W-1900-42	120 - 277	1900	79.8	30	42
EVM090W: 81 to 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
EVM090W-2000-42-Z1B ⁽⁴⁾	120 - 277	2000	84.0	30	42
EVM100W: 91 to 100W					
EVM100W-1200-80 ⁽¹⁾	120 - 277	1200	96.0	66	80
EVM100W-1200-84 ⁽¹⁾	120 - 277	1200	100.8	70	84
EVM100W-1700-56	120 - 277	1700	95.2	40	56
EVM100W-2100-45	120 - 277	2100	94.5	32	45
EVM100W-2350-42	120 - 277	2350	98.7	30	42
EVM110W: 101 to 110W					
EVM110W-2000-52-N1B ⁽³⁾	120 - 277	2000	104.0	40	52
EVM110W-2500-42 ⁽¹⁾	120 - 277	2500	105.0	30	42
EVM120W: 111 to 120W					
EVM120W-1400-84-S	120 - 277	1400	117.6	70	84
EVM120W-2700-42 ⁽¹⁾	120 - 277	2700	113.4	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@erp-power.com

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
- Industrial LED Lighting
- Metal Halide replacement
- Tunnels and street lighting
- Outdoor LED Lighting
- Wide-area downlights



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