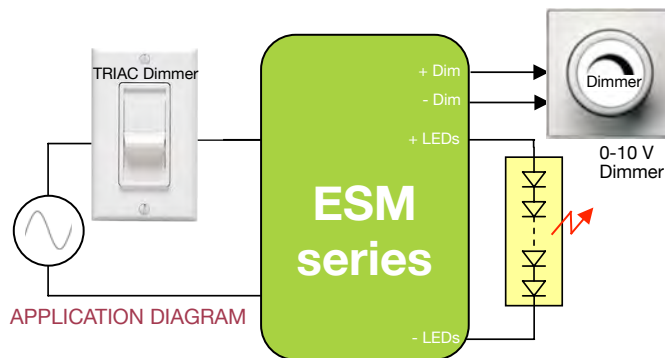


Tri-Mode Dimming™ (0-10 V & TRIAC/ELV) Constant Current LED Drivers with Fast Startup Time

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	60 W	19 to 56 Vdc	280 mA to 1.4 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)	300 ms typical

CC: Constant Current



METAL CASE
L 110 x W 60 x H 26 mm
(L 4.33 x W 2.36 x H 1.02 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
- Linear 0-10V dimming transfer function: 10V=100%, 1V=10%, 0.1V=1%
- Lifetime: 85,500 hours at 70°C case hot spot temperature (39°C ambient temperature) for ESM050W-1200-42 (50 W)
- 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.
- 90°C maximum case hot spot temperature
- Class 2 power supply



APPLICATIONS

- Recessed downlights
- Commercial lighting
- Residential lighting
- Architecture Lighting

ERP Part Number	Nominal Input Voltage (Vac)	Iout (mA)	Max Output Power (W)	Output Voltage Range (Vdc)	
				Min	Max
ESM020W: 12-20W					
ESM020W-0280-42	120 - 277	280	11.8	24	42
ESM020W-0350-42	120 - 277	350	14.7	24	42
ESM020W-0400-42	120 - 277	400	16.8	24	42
ESM020W-0440-25	120 - 277	440	11.0	19	25
ESM020W-0440-25-SS-F1B ^[1]	120 - 277	440	11.0	19	25
ESM020W-0440-34-SS-F1B ^[2]	120 - 277	440	15.0	27	34
ESM020W-0440-34	120 - 277	440	15.0	19	34
ESM020W-1000-14	120 - 277	1000	14.0	8	14
ESM030W: 21-30W					
ESM030W-0500-42	120 - 277	500	21.0	24	42
ESM030W-0550-42	120 - 277	550	23.1	24	42
ESM030W-0700-32	120 - 277	700	22.4	21	32
ESM030W-0700-42	120 - 277	700	29.4	24	42
ESM030W-0900-26	120 - 277	900	23.4	19	26
ESM030W-0940-26-SS-F1B ^[3]	120 - 277	940	24.4	19	26
ESM030W-1750-14	120 - 277	1750	24.5	8	14
ESM040W: 31-40W					
ESM040W-0700-56	120 - 277	700	39.2	40	56
ESM040W-0800-42	120 - 277	800	33.6	24	42
ESM040W-0850-42	120 - 277	850	35.7	24	42
ESM040W-0900-42	120 - 277	900	37.8	24	42
ESM040W-0940-33-SS-F1B ^[4]	120 - 277	940	31.0	28	33
ESM040W-0940-43	120 - 277	940	40.4	32	43
ESM050W: 41-50W					
ESM050W-1050-42	120 - 277	1050	44.1	24	42
ESM050W-1200-42	120 - 277	1200	50.4	24	42
ESM050W-1400-34	120 - 277	1400	47.6	23	34
ESM060W: 51-60W					
ESM060W-1400-42	120 - 277	1400	58.8	24	42

Notes:

- 1) The ESM020W-0440-25-SS-F1B is specifically intended to drive the Cree LMH2 850 sunset module and exhibits a customized 0-10V dimming transfer function. It will not work with any other LED or LED string.
- 2) The ESM020W-0440-34-SS-F1B is specifically intended to drive the Cree LMH2 1250 sunset module and exhibits a customized 0-10V dimming transfer function. It will not work with any other LED or LED string.
- 3) The ESM030W-0940-26-SS-F1B is specifically intended to drive the Cree LMH2 2000 sunset module and exhibits a customized 0-10V dimming transfer function. It will not work with any other LED or LED string.
- 4) The ESM040W-0940-33-SS-F1B is specifically intended to drive the Cree LMH2 3000 sunset module and exhibits a customized 0-10V dimming transfer function. It will not work with any other LED or LED string.
- 5) 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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