P U W E R	ESM Series	ESM030 ESM040 ESM050	10-20 W 21-30 W 31-40 W 41-50 W 51-60 W
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10 to 60 W Constant Current LED Drivers with Tri-Mode Dimming[™] (TRIAC, ELV & 0-10 V)

	Input	Max. Output	Output	Output	Efficiency	Max. Case	тнс	Power	Dimming	Dimming	Startu			
	Voltage 120 to 277 Vac	Power 60 W	8 to 56	280 mA to 1.4 A	up to 87%	90°C (measured at	< 209	Factor	Method Forward-Phase, Reverse-Phase	Range	Time 400 ms			
	maximum		Vdc	CC	typical ant Current	the hot spot)			& 0 - 10V	(% of lout)				
TRIAC/ELV Dimmer							ERP Part Number		Nominal Input Voltage	lout (mA)	Max Output Power	Output Voltage Range (Vdc)		
					US	(Vac)			(11/2)	(W)	Min	Max		
							ESM020W: 12 to 20 W							
(\land)		ESN	Л		limmer	FC		ESM020W-028		120 to 277	280	11.8	24	42
し く ツー				Ds				ESM020W-035 ESM020W-035	(=)	120 to 277 120 to 277	350 350	14.7 14.7	24 24	42 42
		serie	es		- 17	energy		ESM020W-030		120 to 277	400	16.8	24	42
							ESM020W-044		120 to 277	440	11.0	19	25	
			- LEC	os 🗕 🛨	-	<u> </u>	s 🐢	ESM020W-044	40-25-SS-F1B ^[1]	120 to 277	440	11.0	19	25
		in the second se							40-34-SS-F1B ^[2]	120 to 277	440	15.0	27	34
	, Car							ESM020W-044	120 to 277	440	15.0	19	34	
							6	ESM020W-100		120 to 277 M030W: 21 to 3	1000 30 W	14.0	8	14
			1				L	ESM030W-050		120 to 277	500	21.0	24	42
CSS and	anana a		-			A DIN		ESM030W-055		120 to 277	550	23.1	24	42
6		12				CA Title		ESM030W-070		120 to 277	700	22.4	21	32
A Warray							ESM030W-070 ESM030W-070		120 to 277 120 to 277	700 700	29.4 29.4	24 24	42 42	
							ESM030W-070		120 to 277	900	23.4	19	26	
Č N	1-			I Case					40-26-SS-F1B ^[3]	120 to 277	940	24.4	20.5	26
			110 x W 6			340		ESM030W-175		120 to 277	1750	24.5	8	14
		📕 (L 4.	33 x W 2	.36 x H [·]	1.02 in)	erieW.				SM040W: 31 to		00.0	40	50
FEATURES								ESM040W-070 ESM040W-080		120 to 277 120 to 277	700 800	39.2 33.6	40 24	56 42
								ESM040W-085		120 to 277	850	35.7	24	42
Compatible with								ESM040W-090	00-42	120 to 277	900	37.8	24	42
ELV (reverse-ph			,		inters				10-33-SS-F1B ^[4]	120 to 277	940	31.0	28	33
 TRIAC and ELV 90°C maximum 								ESM040W-094		120 to 277	940	40.4	32	43
 Class 2 power s 		spor tem	perature					ESM050W-105		SM050W: 41 to 120 to 277	1050	44.1	24	42
 Lifetime: 50,000 		70°C cas	e hot en	ot tompo	oraturo (co	me models		ESM050W-105	120 to 277	1050	44.1	24	42	
have higher lifet			•	•	•	me models		ESM050W-120	120 to 277	1200	50.4	24	42	
 IP20-rated case 					5)		. I	ESM050W-140		120 to 277	1400	47.6	23	34
Two 0-10V dimr				9				ESM060W-140		SM060W: 51 to 120 to 277	60 W 1400	58.8	24	42
 Linear 0-1 				V=10%	. 0.1V=1%		L.	_311100011-140	J0-42	12010211	1400	00.0	24	74
 Non-linear 0-10V dimming: 10V to 8.1V=100%, 1V to 0.8V=1%, <0.8V dim-to-off. 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®, DLC (DesignLight Consortium®) and CA Title 24 technical requirements Worldwide safety approvals APPLICATIONS Indoor & outdoor • Recessed lighting (downlights) Commercial & residential lighting • Architecture Lighting 							1, 2, 3, 4, 5,	 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. 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. 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. The ESM040W-0940-33-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. 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. 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. Models with the "Z1" suffix exhibit a non-linear 0-10V dimming profile: (10V to 9.1V=100%, 1V to 0.8V=1%, <0.8V dim-to-off). For additional options of output current and output voltage, contact your sales representative or send an email to: <u>SaveEnerov@ero-power.com</u>. 						
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