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 Max. Case			Power Dimming		Dimming	Startup					
	Voltage 120 to 277	Output Power	Voltage	Current 280 mA	Efficiency	Temperature 90°C	THC	Factor	Method Forward-Phase,	Range	Time	-		
	Vac	60 W	8 to 56 Vdc	to 1.4 A CC	up to 87% typical	(measured at the hot spot)	< 209					400 ms		
CC: Constant Current							ERP Part Number		Nominal Input Voltage (mA)		Max Output Power	Output Voltage Range (Vdc)		
+ Dim					US	(Vac)				(W)	Min	Max		
							EON 400014/ 000		SM020W: 12 to		11.0	0.1	40	
(/∖,) □	9	ESN			lillinei	L L	·	ESM020W-028 ESM020W-035		120 to 277 120 to 277	280 350	11.8 14.7	24 24	42 42
\bigvee		serie						ESM020W-035	(=)	120 to 277	350	14.7	24	42
		Serie	-3		\mathcal{N}	Energy STAR		ESM020W-040		120 to 277	400	16.8	24	42
								ESM020W-044		120 to 277 120 to 277	440 440	11.0 11.0	19 19	25 25
							State -		10-25-SS-F1B ^[1] 10-34-SS-F1B ^[2]	120 to 277	440	15.0	27	34
								ESM020W-044		120 to 277	440	15.0	19	34
	Cer							ESM020W-100	00-14	120 to 277	1000	14.0	8	14
							Y I	ESM030W-050		SM030W: 21 to 3 120 to 277	30 W 500	21.0	24	42
S.	1 100		1				144	ESM030W-050 ESM030W-055		120 to 277 120 to 277	500	21.0 23.1	24	42
	S. S. S. S.	1	and the second second			CA Title		ESM030W-070		120 to 277	700	22.4	21	32
						, War		ESM030W-070		120 to 277	700	29.4	24	42
							ESM030W-070		120 to 277	700	29.4	24	42	
2	1-		Meta	I Case		11 15		ESM030W-090	00-26 10-26-SS-F1B ^[3]	120 to 277 120 to 277	900 940	23.4 24.4	19 20.5	26 26
	r -	L1	10 x W 6	60 x H 26	3 mm	32		ESM030W-094 ESM030W-175		120 to 277	1750	24.5	8	14
		📕 (L 4.	33 x W 2	.36 x H ⁻	1.02 in)	Wares.	2			SM040W: 31 to				
FEATURES		T						ESM040W-070		120 to 277	700	39.2	40	56
								ESM040W-080 ESM040W-085		120 to 277 120 to 277	800 850	33.6 35.7	24 24	42
Compatible with TRIAC (forward-phase or leading-edge),							ESM040W-090		120 to 277	900	37.8	24	42	
ELV (reverse-phase or trailing-edge) and 0-10 V dimmers							ESM040W-094	40-33-SS-F1B ^[4]	120 to 277	940	31.0	28	33	
 TRIAC and ELV dimming only at 120 Vac 90°C maximum case hot spot temperature 								ESM040W-094		120 to 277	940	40.4	32	43
		spor tem	perature					ESM050W-105		SM050W: 41 to 120 to 277	50 W 1050	44.1	24	42
 Class 2 power supply Lifetime: 50,000 hours at 70°C case hot spot temperature (some models 								ESM050W-105		120 to 277	1050	44.1	24	42
have higher lifet						me models		ESM050W-120	00-42	120 to 277	1200	50.4	24	42
 IP20-rated case 					~)			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	58.8	24	42
				V=10%	0.1V=1%	-	L		10 12					
 Linear 0-10 V dimming: 10V=100%, 1V=10%, 0.1V=1%. 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 							1, 2, 3, 4, 5,	 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 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) Models with the "21" suffix exhibit a non-linear 0-10V dimming profile: (10V to 9.1V=100%, 1V to 0.8V=1%, <0.8V dim-to-off). 6) For additional options of output current and output voltage, contact your sales representative or send an email to: <u>SaveEnerov@ero-power.com</u>. 						
CHINA Operation tel: +86-756-626 No. 8 Pingdong Zhuhai, Guangdo	6298 Road 2	a 519060		vww.er	p-power	.com	Sav	veEnergy@	erp-power.	com	tel: - 893	Headq ⊦1-805- Patriot I Patriot K	517-13 Drive, S	00