ESP Series

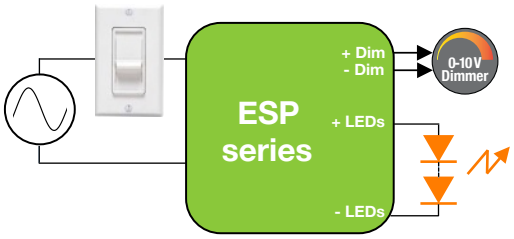
ESP040 31-40 W
ESP050 41-50 W
ESP060 51-60 W

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

Nominal 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, 220 to 240 Vac	60 W	21 to 56 Vdc	700 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

TRIAC/ELV Dimmer



Plastic Case
L 87 x W 60 x H 27.2 mm
(L 3.43 x W 2.36 x H 1.07 in)

	ERP Part Number	Nominal Input Voltage (Vac)	Iout (mA)	Max Output Power (W)	Output Voltage Range (Vdc) Min	Max
120 to 277 VAC NOMINAL INPUT VOLTAGE	**ESP040W: 30 to 40W**					
	ESP040W-0700-56	120 to 277	700	39.2	40	56
	ESP040W-0800-42	120 to 277	800	33.6	24	42
	ESP040W-0850-42	120 to 277	850	35.7	24	42
	ESP040W-0900-42	120 to 277	900	37.8	24	42
	ESP040W-0940-33-SS-F1 (1)	120 to 277	940	31.0	28	33
	ESP040W-0940-43	120 to 277	940	40.4	35	43
	ESP050W: 41 to 50W					
	ESP050W-1050-42	120 to 277	1050	44.1	24	42
	ESP050W-1200-42	120 to 277	1200	50.4	24	42
	ESP050W-1400-32	120 to 277	1400	44.8	21	32
	ESP050W-1400-34	120 to 277	1400	47.6	23	34
	ESP060W: 51 to 60W					
	ESP060W-1400-42	120 to 277	1400	58.8	24	42
220 to 240 VAC NOMINAL INPUT VOLTAGE	**ESP040E: 30 to 40 W**					
	ESP040E-0800-42	220 to 240	800	33.6	24	42
	ESP040E-0850-42	220 to 240	850	35.7	24	42
	ESP040E-0900-42	220 to 240	900	37.8	24	42
	ESP050E: 41 to 50 W					
	ESP050E-1050-42	220 to 240	1050	44.1	24	42
	ESP050E-1200-42	220 to 240	1200	50.4	24	42
	ESP060E: 41 to 50 W					
	ESP060E-1400-42	220 to 240	1400	58.8	24	42

Notes:
1. *The ESP040W-0940-33-SS-F1 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.*

FEATURES

- **NOT RECOMMENDED FOR NEW DESIGNS. FOR NEW DESIGNS, USE THE ESPT SERIES.**
- Compatible with TRIAC (forward-phase or leading-edge), ELV (reverse-phase or trailing-edge) and 0-10 V dimmers
- ESPxxxW: TRIAC and ELV dimming only at 120 Vac.
- ESPxxxE: TRIAC and ELV dimming only at 230 Vac.
- Linear 0-10V dimming transfer function: 10V=100%, 1V=10%, 0.1V=1%
- Lifetime: 50,000 hours min at 70°C case temperature
- 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®, DLC (DesignLight Consortium®) and CA Title 24 technical requirements
- IP64-rated case with silicone-based potting
- 90°C maximum case hot spot temperature
- Class 2 power supply

APPLICATIONS

- Commercial lighting
- Architectural lighting
- Residential lighting
- Wide-area downlights

CA Title 24

5 Year Warranty - 5 Year Warranty

CHINA Operations
tel: +86-756-6266298
No. 8 Pingdong Road 2
Zhuhai, Guangdong, China 519060

www.erp-power.com

SaveEnergy@erp-power.com

USA Headquarters
tel: +1-805-517-1300
893 Patriot Drive, Suite E
Moorpark, CA 93021, USA

Mouser Electronics

Authorized Distributor

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ERP Power:

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