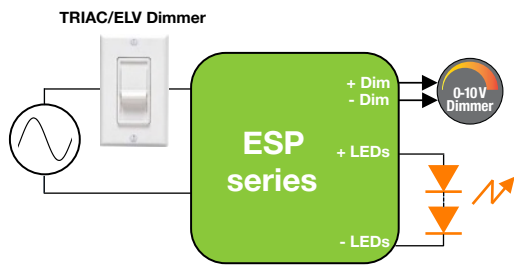


40 to 60 W Constant Current LED Drivers with Tri-Mode Dimming™ (TRIAC, ELV & 0-10 V)

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)	400 ms

CC: Constant Current



Plastic Case
 L 90 x W 60 x H 27.2 mm
 (L 3.54 x W 2.36 x H 1.07 in)

FEATURES

- **NOT RECOMMENDED FOR NEW DESIGNS. FOR NEW DESIGNS, USE THE ESPT OR ESPV SERIES.**
- Compatible with TRIAC (forward-phase or leading-edge), ELV (reverse-phase or trailing-edge) and 0-10 V dimmers
- ESPxxxW models: TRIAC and ELV dimming only at 120 Vac
- ESPxxxE models: ELV dimming only at 230 Vac
- 90°C maximum case hot spot temperature
- Class 2 power supply
- Lifetime: 50,000 hours at 70°C case hot spot temperature (some models have higher lifetime. Check lifetime curves in page 6)
- IP64-rated case with silicone-based potting
- 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), and EN55015 (CISPR 15) at 220, 230, and 240 Vac
- Complies with ENERGY STAR®, DLC (DesignLight Consortium®) and CA Title 24 technical requirements
- Worldwide safety approvals

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.
2. The ESP driver case can also be mounted by using two metal clips, one on each short side. The ordering part number for the two metal clips is ESP-CLIPS. By default, the ESP driver is shipped without metal clips. When metal clips are required, add ESP-CLIPS to your order.
3. For additional options of output current and output voltage, contact your sales representative or send an email to: SaveEnergy@erp-power.com

APPLICATIONS

- Indoor & outdoor
- Recessed lighting (downlights)
- Commercial & residential lighting
- Architectural lighting
- Office Lighting



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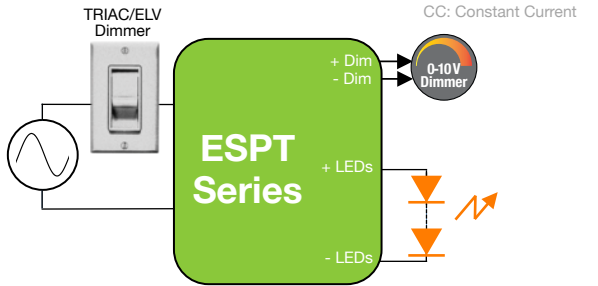
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40 to 60 W Constant Current LED Drivers with Tri-Mode Dimming™ (TRIAC, ELV & 0-10 V)

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	24 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)	400 ms



FEATURES

- Same features as the ESP series but with a thermally-enhanced plastic case
- Compatible with TRIAC (forward-phase or leading-edge), ELV (reverse-phase or trailing-edge) and 0-10 V dimmers
- ESPTxxxW models: TRIAC and ELV dimming only at 120 Vac
- ESPTxxxE models: ELV dimming only at 230 Vac
- 90°C maximum case hot spot temperature
- Class 2 power supply
- Lifetime: 50,000 hours at 70°C case hot spot temperature (some models have higher lifetime. Check lifetime curves in page 6)
- IP66-rated case with silicone-based potting
- Two 0-10V dimming profiles are available:
 - 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

ERP Part Number	Nominal Input Voltage (Vac)	Iout (mA)	Max Output Power (W)	Output Voltage Range	
				Min	Max
120-277 VAC NOMINAL INPUT VOLTAGE					
ESPT040W: 30-40W					
ESPT040W-0700-56	120 - 277	700	39.2	40	56
ESPT040W-0800-42-Z1 ⁽¹⁾	120 - 277	800	33.6	24	42
ESPT040W-0900-42-Z1 ⁽¹⁾	120 - 277	900	37.8	24	42
ESPT050W: 41-50W					
ESPT050W-1050-42-Z1 ⁽¹⁾	120 - 277	1050	44.1	24	42
ESPT050W-1200-42-Z1 ⁽¹⁾	120 - 277	1200	50.4	24	42
ESPT050W-1400-34	120 - 277	1400	47.6	23	34
ESPT060W: 51-60W					
ESPT060W-1400-42-Z1 ⁽¹⁾	120 - 277	1400	58.8	24	42
220-240 VAC NOMINAL INPUT VOLTAGE					
ESPT040E: 30 to 40 W					
ESPT040E-0800-42	220/230/240	800	33.6	24	42
ESPT040E-0900-42	220/230/240	900	37.8	24	42
ESPT050E: 41 to 50 W					
ESPT050E-1050-42	220/230/240	1050	44.1	24	42
ESPT050E-1200-42	220/230/240	1200	50.4	24	42
ESPT060E: 41 to 50 W					
ESPT060E-1400-42	220/230/240	1400	58.8	24	42

Notes:

- 1) ESPT models with the "-Z1" suffix exhibit a non-linear 0-10V dimming profile with dim-to-off: 10V to 8.1V=100%, 1V to 0.8V=1%, <0.8V dim-to-off.
- 2) The ESPT driver case must be mounted by using a minimum of two metal clips. By default, the ESPT driver is shipped with 2 metal clips. Additional metal clips can be ordered with the following part numbers:
 - ESPT-CLIPS-100: bag of 100 clips
 - ESPT-CLIPS-1k: bag of 1000 clips
- 3) For additional options of output current and output voltage, contact your sales representative or send an email to: SaveEnergy@ERP-Power.com

APPLICATIONS

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