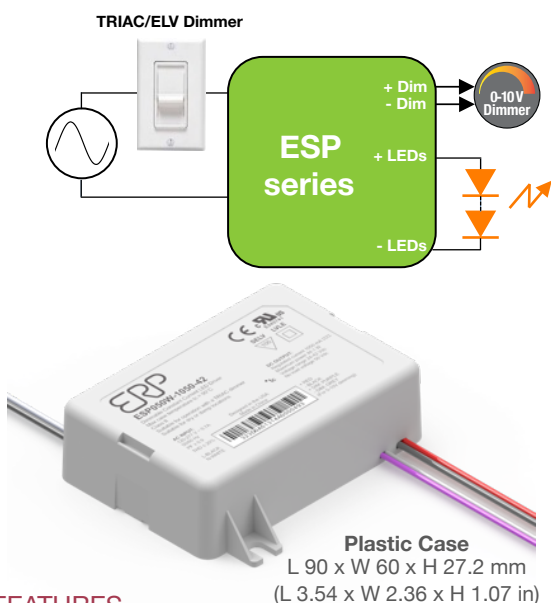


40 to 60 W Constant Current LED Drivers with Tri-Mode Dimming™ (TRIAC, ELV & 0-10 V)

| 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



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



CA Title 24



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