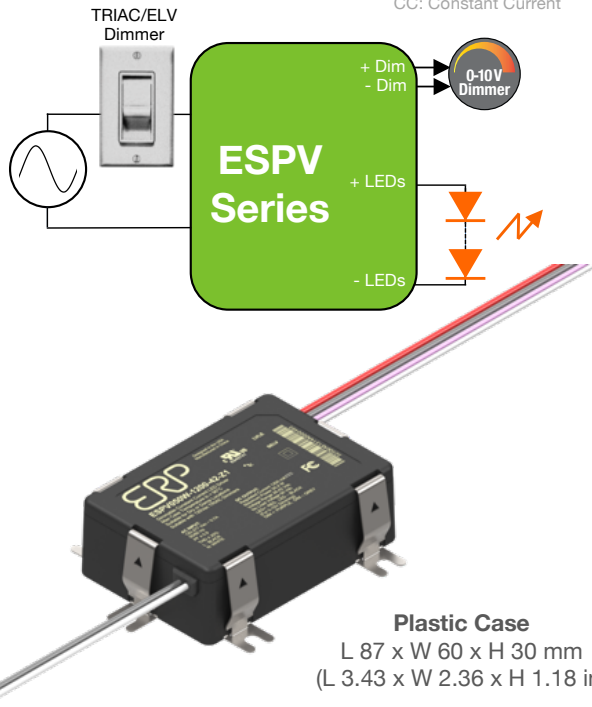


## 40 to 60 W Constant Current LED Drivers with Tri-Mode Dimming™ (TRIAC, ELV & 0-10 V)

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	60 W	24 to 42 Vdc	1.05 A 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



ERP Part Number	Nominal Input Voltage (Vac)	Iout (mA)	Max Output Power (W)	Output Voltage Range (Vdc)	
				Min	Max
ESPV050W: 41 to 50W					
ESPV050W-1050-42-Z1 <sup>(1)</sup>	120 - 277	1050	44.1	24	42
ESPV050W-1200-42-Z1 <sup>(1)</sup>	120 - 277	1200	50.4	24	42
ESPV060W: 51 to 60W					
ESPV060W-1400-42-Z1 <sup>(1)</sup>	120 - 277	1400	58.8	24	42

### Notes:

- Models with the "-Z1" suffix exhibit a non-linear 0-10V dimming profile with dim-to-off: 10V to 9.1V=100%, 1V to 0.8V=1%, <0.8V dim-to-off.
- The ESPV driver case must be mounted by using a minimum of two metal clips. By default, the ESPV 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
The metal clips are identical between the ESPV and ESPT series.
- For additional options of output current and output voltage, contact your sales representative or send an email to: [SaveEnergy@ERP-Power.com](mailto:SaveEnergy@ERP-Power.com)

### FEATURES

- Same features as the ESP/ESPT series but with a thermally-enhanced plastic case, 5VA flammability and UL Class P
- Compatible with TRIAC (forward-phase or leading-edge), ELV (reverse-phase or trailing-edge) and 0-10 V dimmers
- TRIAC and ELV dimming only at 120 Vac
- UL Class P
- 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
- Non-linear 0-10V dimming with dim-to-off: 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 • Architectural lighting
- Office Lighting



### CHINA Operations

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

[www.erp-power.com](http://www.erp-power.com)

[SaveEnergy@erp-power.com](mailto:SaveEnergy@erp-power.com)

### USA Headquarters

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