



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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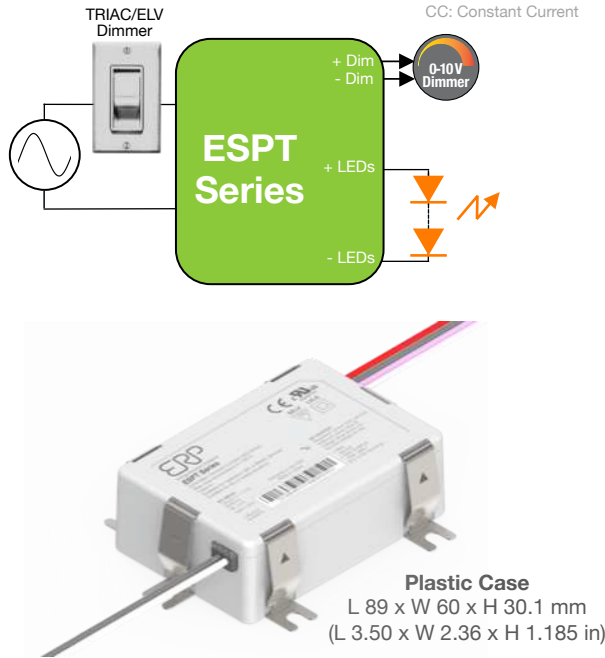
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## Constant Current LED Drivers with Tri-Mode Dimming™ (0-10 V & TRIAC/ELV)

| 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   | 1050 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 lout) | 300 ms typical |



| NOMINAL INPUT VOLTAGE       | ERP Part Number                    | Nominal Input Voltage (Vac) | I <sub>out</sub> (mA) | Max Output Power (W) | Output Voltage Range |     |
|-----------------------------|------------------------------------|-----------------------------|-----------------------|----------------------|----------------------|-----|
|                             |                                    |                             |                       |                      | Min                  | Max |
| 120-277 VAC                 | <b>ESPT040W: 30-40W</b>            |                             |                       |                      |                      |     |
|                             | ESPT040W-0700-56                   | 120 - 277                   | 700                   | 39.2                 | 40                   | 56  |
|                             | ESPT040W-0800-42-Z1 <sup>(1)</sup> | 120 - 277                   | 800                   | 33.6                 | 24                   | 42  |
|                             | ESPT040W-0900-42-Z1 <sup>(1)</sup> | 120 - 277                   | 900                   | 37.8                 | 24                   | 42  |
|                             | <b>ESPT050W: 41-50W</b>            |                             |                       |                      |                      |     |
|                             | ESPT050W-1050-42-Z1 <sup>(1)</sup> | 120 - 277                   | 1050                  | 44.1                 | 24                   | 42  |
| 220-240 VAC                 | <b>ESPT040E: 30 to 40 W</b>        |                             |                       |                      |                      |     |
|                             | ESPT040E-0800-42                   | 220/230/240                 | 800                   | 33.6                 | 24                   | 42  |
|                             | ESPT040E-0900-42                   | 220/230/240                 | 900                   | 37.8                 | 24                   | 42  |
|                             | <b>ESPT050E: 41 to 50 W</b>        |                             |                       |                      |                      |     |
|                             | ESPT050E-1050-42                   | 220/230/240                 | 1050                  | 44.1                 | 24                   | 42  |
|                             | ESPT050E-1200-42                   | 220/230/240                 | 1200                  | 50.4                 | 24                   | 42  |
| <b>ESPT060E: 41 to 50 W</b> |                                    |                             |                       |                      |                      |     |
| ESPT060E-1400-42            | 220/230/240                        | 1400                        | 58.8                  | 24                   | 42                   |     |

1) Models with the "Z1" suffix exhibit a non-linear 0-10V dimming profile (10V to 9.1V=100%, 1V to 0.8V=1%, <0.8V dim-to-off).  
2) 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 as ESP series but with thermally-enhanced IP66 case
- Compatible with TRIAC (forward-phase or leading-edge), ELV (reverse-phase or trailing-edge) and 0-10 V dimmers
- ESPTxxxW: TRIAC and ELV dimming only at 120 Vac.
- ESPTxxxE: TRIAC and ELV dimming only at 230 Vac.
- Linear 0-10 V dimming transfer function: 10V=100%, 1V=10%, 0.1V=1%. Models with the "Z1" exhibit a non-linear 0-10V dimming profile (10V to 9.1V=100%, 1V to 0.8V=1%, <0.8V dim-to-off).
- Lifetime: 50,000 hours at 70°C case temperature
- 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
- IP66-rated case with silicone-based potting
- 90°C maximum case temperature
- Class 2 power supply

### APPLICATIONS

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

