



ESS/ESST Series

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|---------|---------|
| ESS010 | 6-10 W |
| ESS015 | 11-15 W |
| ESS020 | 16-20 W |
| ESS030 | 21-30 W |
| ESST040 | 31-40 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 | 40 W | 14 to 42 Vdc | 250 to 2100 mA 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



| ERP Part Number | Nominal Input Voltage (Vac) | Iout (mA) | Max Output Power (W) | Output Voltage Range (Vdc) | |
|-----------------------------------|-----------------------------|-----------|----------------------|----------------------------|-----|
| | | | | Min | Max |
| ESS010W: up to 10 W | | | | | |
| ESS010W-0180-42 | 120 to 277 | 180 | 7.6 | 28 | 42 |
| ESS010W-0200-42 | 120 to 277 | 200 | 8.4 | 28 | 42 |
| ESS010W-0250-42 | 120 to 277 | 250 | 10.5 | 28 | 42 |
| ESS010W-0250-42-Z1 ⁽²⁾ | 120 to 277 | 250 | 10.5 | 28 | 42 |
| ESS010W-0350-24 | 120 to 277 | 350 | 8.4 | 14 | 24 |
| ESS010W-0500-12 | 120 to 277 | 500 | 6.0 | 6 | 12 |
| ESS010W-0500-18 | 120 to 277 | 500 | 9.0 | 10 | 18 |
| ESS010W-0750-12 | 120 to 277 | 750 | 9.0 | 6 | 12 |
| ESS015W: 11 to 15 W | | | | | |
| ESS015W-0300-42 | 120 to 277 | 300 | 12.6 | 28 | 42 |
| ESS015W-0350-32 | 120 to 277 | 350 | 11.2 | 21 | 32 |
| ESS015W-0400-32 | 120 to 277 | 400 | 12.8 | 21 | 32 |
| ESS015W-0350-42 | 120 to 277 | 350 | 14.7 | 28 | 42 |
| ESS015W-0350-42-Z1 ⁽²⁾ | 120 to 277 | 350 | 14.7 | 28 | 42 |
| ESS015W-0440-25 | 120 to 277 | 440 | 11.0 | 19 | 25 |
| ESS015W-0440-34 | 120 to 277 | 440 | 15.0 | 24 | 34 |
| ESS015W-0700-18 | 120 to 277 | 700 | 12.6 | 10 | 18 |
| ESS015W-0700-18-Z1 ⁽²⁾ | 120 to 277 | 700 | 12.6 | 10 | 18 |
| ESS015W-1000-12 | 120 to 277 | 1000 | 12.0 | 6 | 12 |
| ESS015W-1050-14 | 120 to 277 | 1050 | 14.7 | 8 | 14 |
| ESS015W-1050-14-Z1 ⁽²⁾ | 120 to 277 | 1050 | 14.7 | 8 | 14 |
| ESS020W: 16 to 20 W | | | | | |
| ESS020W-0350-56 | 120 to 277 | 350 | 19.6 | 40 | 56 |
| ESS020W-0400-42 | 120 to 277 | 400 | 16.8 | 28 | 42 |
| ESS020W-0450-42 | 120 to 277 | 450 | 18.9 | 28 | 42 |
| ESS020W-0500-32 | 120 to 277 | 500 | 16.0 | 21 | 32 |
| ESS020W-0500-34 | 120 to 277 | 500 | 17.0 | 24 | 34 |
| ESS020W-0600-27 | 120 to 277 | 600 | 16.2 | 20 | 27 |
| ESS020W-0700-24 | 120 to 277 | 700 | 16.8 | 14 | 24 |
| ESS020W-1400-14 | 120 to 277 | 1400 | 19.6 | 8 | 14 |
| ESS020W-1400-14-Z1 ⁽²⁾ | 120 to 277 | 1400 | 19.6 | 8 | 14 |
| ESS030W: 21 to 30 W | | | | | |
| ESS030W-0500-42 | 120 to 277 | 500 | 21.0 | 28 | 42 |
| ESS030W-0500-42-Z1 ⁽²⁾ | 120 to 277 | 500 | 21.0 | 28 | 42 |
| ESS030W-0550-42 | 120 to 277 | 550 | 23.1 | 28 | 42 |
| ESS030W-0550-42-Y1 ⁽¹⁾ | 120 to 277 | 550 | 23.1 | 28 | 42 |
| ESS030W-0620-42 | 120 to 277 | 620 | 26.0 | 28 | 42 |
| ESS030W-0620-42-Z1 ⁽²⁾ | 120 to 277 | 620 | 26.0 | 28 | 42 |
| ESS030W-0700-32 | 120 to 277 | 700 | 22.4 | 21 | 32 |
| ESS030W-0700-42 | 120 to 277 | 700 | 29.4 | 28 | 42 |
| ESS030W-0700-42-Z1 ⁽²⁾ | 120 to 277 | 700 | 29.4 | 28 | 42 |
| ESS030W-0900-27 | 120 to 277 | 900 | 24.3 | 20 | 27 |
| ESS030W-0900-32 | 120 to 277 | 900 | 28.8 | 21 | 32 |
| ESS030W-1050-21 | 120 to 277 | 1050 | 22.1 | 14 | 21 |
| ESS030W-1100-27 | 120 to 277 | 1100 | 29.7 | 20 | 27 |
| ESS030W-1750-14 | 120 to 277 | 1750 | 24.5 | 8 | 14 |
| ESS030W-1750-14-Z1 ⁽²⁾ | 120 to 277 | 1750 | 24.5 | 8 | 14 |
| ESS030W-2100-14 | 120 to 277 | 2100 | 29.4 | 8 | 14 |
| ESST040W: 31 to 40 W | | | | | |
| ESST040W-0800-42 | 120 to 277 | 800 | 33.6 | 28 | 42 |
| ESST040W-0900-42 | 120 to 277 | 900 | 37.8 | 28 | 42 |
| ESST040W-1400-24 | 120 to 277 | 1400 | 33.6 | 14 | 24 |
| ESST040W-1400-27 | 120 to 277 | 1400 | 37.8 | 20 | 27 |
| ESS010E: 11 to 10 W | | | | | |
| ESS010E-0250-42 | 220 to 240 | 250 | 10.5 | 28 | 42 |
| ESS015E: 11 to 15 W | | | | | |
| ESS015E-0350-32 | 220 to 240 | 350 | 11.2 | 21 | 32 |
| ESS015E-0350-42 | 220 to 240 | 350 | 14.7 | 28 | 42 |
| ESS020E: 16 to 20 W | | | | | |
| ESS020E-0400-42 | 220 to 240 | 400 | 16.8 | 28 | 42 |
| ESS020E-0450-42 | 220 to 240 | 450 | 18.9 | 28 | 42 |
| ESS030E: 21 to 30 W | | | | | |
| ESS030E-0500-42 | 220 to 240 | 500 | 21.0 | 28 | 42 |
| ESS030E-0620-42 | 220 to 240 | 620 | 26.0 | 28 | 42 |
| ESS030E-0700-42 | 220 to 240 | 700 | 29.4 | 28 | 42 |
| ESST040E: 31 to 40 W | | | | | |
| ESST040E-0800-42 | 220 to 240 | 800 | 33.6 | 28 | 42 |
| ESST040E-0900-42 | 220 to 240 | 900 | 37.8 | 28 | 42 |

FEATURES

- Compatible with TRIAC (forward-phase or leading-edge), ELV (reverse-phase or trailing-edge) and 0-10 V dimmers
- ESSxxxW: TRIAC and ELV dimming only at 120 Vac.
- ESSxxxE: ELV dimming only at 230 Vac.
- 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® luminaire specification and DLC (DesignLight Consortium®) technical requirements
- ESS series: IP64-rated case with silicone-based potting.
- ESST series: IP66-rated case with silicone-based potting.
- 90°C maximum case hot spot temperature
- Class 2 power supply

1) Non-linear 0-10V dimming profile: 10V to 9.1V=100%, 1.2V to 0.6V=1%, Dim to off <0.68V
 2) Non-linear 0-10V Dimming Profile: 10V to 9.1V=100%, 1V to 0.8V=1%, dim-to-off <0.8V

APPLICATIONS

- Downlights
- Commercial & Residential lighting
- Architectural lighting

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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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