

**Driver LCO 120W 700/1050/1400/2100mA 0-10V C ADV UNV**  
OUTDOOR advanced series

**Product description**

- \_ Constant current LED driver
- \_ Only for US applications
- \_ Dimmable via 0 ... 10 V interface
- \_ Dimming range 10 to 100 %
- \_ UL Listed Class P
- \_ FCC Part 15
- \_ Dry and damp location
- \_ Max. output power 120 W
- \_ Up to 93 % efficiency
- \_ Nominal lifetime up to 100,000 h
- \_ 5 years guarantee (conditions at [www.tridonic.com](http://www.tridonic.com))

**Housing properties**

- \_ Metal casing black
- \_ Potted style
- \_ Type of protection IP67

**Functions**

- \_ Over voltage protection
- \_ Short-circuit protection
- \_ No-load protection

**Typical applications**

- \_ For parking lot, high bay and street applications

**Website**

<http://www.tridonic.us/28002165>



Spotlights



Downlights



Linear



Area



Floor | Wall



Free-standing



Street

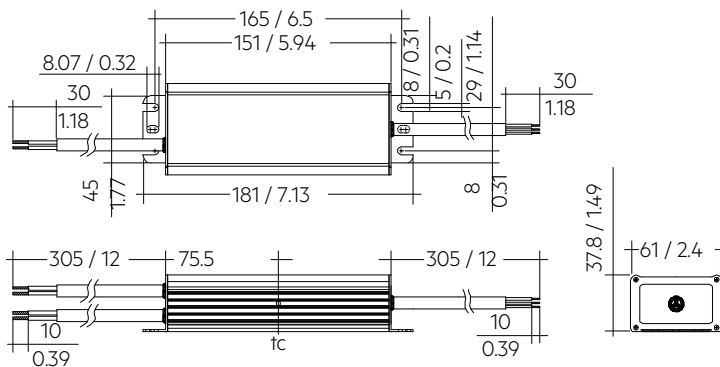


Decorative

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The complete data sheet for this product is available in the Downloads section.



Dimensions in mm / inch

**Ordering data**

| Type                            | Article number | Packaging, carton | Packaging, pallet | Weight per pc. |
|---------------------------------|----------------|-------------------|-------------------|----------------|
| LCO 120/700/171 0-10V C ADV UNV | 28002165       | 10 pc(s).         | 380 pc(s).        | 1.63 lbs       |

**Technical data**

|                                                           |                         |
|-----------------------------------------------------------|-------------------------|
| Rated supply voltage                                      | 100 – 277 V             |
| AC voltage range                                          | 90 – 305 V              |
| Mains frequency                                           | 50 / 60 Hz              |
| Leakage current (at 120 V, 60 Hz, full load)              | < 400 µA                |
| Leakage current (at 277 V, 60 Hz, full load)              | < 750 µA                |
| Max. input power (at 120 V, 60 Hz, full load)             | 133 W                   |
| Max. input power (at 277 V, 60 Hz, full load)             | 132 W                   |
| λ (at 120 V, 60 Hz, full load)                            | 0.95                    |
| λ (at 277 V, 60 Hz, full load)                            | 0.94C                   |
| Typ. input current in no-load operation (at 120 V, 60 Hz) | 50 mA                   |
| Typ. input current in no-load operation (at 277 V, 60 Hz) | 70 mA                   |
| Typ. input power in no-load operation (at 120 V, 60 Hz)   | 3 W                     |
| Typ. input power in no-load operation (at 277 V, 60 Hz)   | 4 W                     |
| In-rush current (peak / duration at 120 V)                | 50 A / 4 µs             |
| In-rush current (peak / duration at 277 V)                | 95 A / 5 µs             |
| THD (at 120 V, 60 Hz, full load)                          | < 8 %                   |
| THD (at 277 V, 60 Hz, full load)                          | < 15 %                  |
| Starting time (full load)                                 | ≤ 500 ms                |
| Turn off time at full load                                | < 200 ms                |
| Output current tolerance                                  | ± 5 %                   |
| Max. output current peak (non-repetitive)                 | ≤ output current + 35 % |
| Output LF current ripple (< 120 Hz)                       | < 5 %                   |
| Dimming range                                             | 10 – 100 %              |
| Mains surge capability (between L - N)                    | 2 kV                    |
| Mains surge capability (between L/N - PE)                 | 4 kV                    |
| Type of protection                                        | IP67                    |
| Lifetime                                                  | up to 100,000 h         |
| Guarantee (conditions at www.tridonic.com)                | 5 Year(s)               |
| Dimensions L x W x H                                      | 7.87 x 2.4 x 1.49 inch  |

**Approval marks**

**Standards**

UL 8750, FCC PART 15, ANSI C62.41, ANSI C63.4, UL 1012, NEMA 4, CSA C22.2

**Specific technical data**

| Type                                   | Output current | Min. forward voltage | Max. forward voltage | Max. output voltage (U-OUT) | Max. output power (at 120 V, 60 Hz, full load) | Typ. power consumption (at 120 V, 60 Hz, full load) | Typ. current consumption (at 120 V, 60 Hz, full load) | Typ. efficiency (at 120 V, 60 Hz, full load) | Max. output power (at 277 V, 60 Hz, full load) | Typ. power consumption (at 277 V, 60 Hz, full load) | Typ. current consumption (at 277 V, 60 Hz, full load) | Typ. efficiency (at 277 V, 60 Hz, full load) | t <sub>c</sub> | Ambient temperature t <sub>a</sub> |
|----------------------------------------|----------------|----------------------|----------------------|-----------------------------|------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------|----------------------------------------------|------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------|----------------------------------------------|----------------|------------------------------------|
| <b>LCO 120/700/171 0-10V C ADV UNV</b> | 700 mA         | 86 V                 | 171 V                | 180 V                       | 120.0 W                                        | 132.0 W                                             | 1,100 mA                                              | 91.5 %                                       | 123.0 W                                        | 132.0 W                                             | 490 mA                                                | 93 %                                         | 185 °F         | -22 ... +140 °F                    |