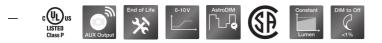


OPTOTRONIC Outdoor Programmable LED Power Supplies

79366 / OT180W/UNV/800C/2DIM/P6



The OPTOTRONIC programmable dimmable family consists of highly efficient, constant current LED power supplies for outdoor applications. One click programming through the OPTOTRONIC programmer allows OEMs to configure the output current with 1mA resolution. Also fully customizable by the OEM are the proprietary OSRAM AstroDIM and LEDset features. AstroDIM is autonomous dimming for night-time power reduction based on an internal timer that can be set for an entire year. The LEDset feature automatically sets the output current based on the module that is connected.These power supplies are available in dimming to 10% with built-in 0-10V dimming, enables direct integration and operation with standard dimmers, sensors, as well as energy and light-management systems.



Product family features

- Programmable with 1mA resolution to perfectly match LED load and maximize performance
- Dimming down to 10% on 0-10V dimmers
- Integrated OEM programmable features include AstroDIM LEDset Constant lumen maintenance LED thermal protection
- Programming doesn't require powering up or connecting the power supply to AC line voltage
- High levels of line transient protection for outdoor applications (6kV)
- UL Damp and Wet Rated
- IP66 Rated

- Available in both: - Universal Input Voltage $120-277 V_{AC} 50/60 Hz = 347-480 V_{AC} 50/60 Hz$

Areas of application

- Architectural building mounted
- Bollards
- Cobra heads
- Decorative landscape lighting
- Industrial high bay
- Mini wall packs
- Shoe box

Technical data

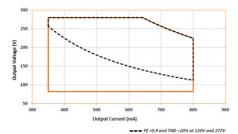
General product information

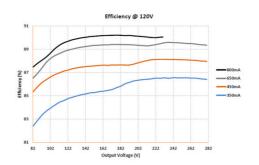
| OT180WUNV800C2DIMP6 10/CS 1/SKU | | |
|--|--|--|
| 00C/2DIM/P6 | | |
| OSRAM | | |
| 180W Programable Low current Outdoor LED Power Supply UNV 2DIM | | |
| Output current, Dimming level, LED thermal protection, AstroDIM, LEDSet Gen2, Constant Lumen output, End of life indicator | | |
| 2 | | |
| Constant Current | | |
| | | |
| | | |

Electrical data

| Nominal Total Max Wattage | 180 W |
|---------------------------|-----------|
| Nominal Voltage | 120-277 V |

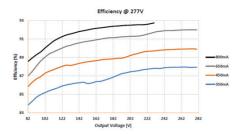


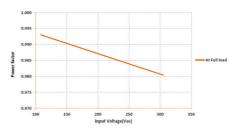




79366 - OT180W - Operating - Range

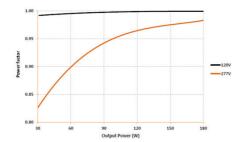
79366 - OT180W - Efficiency vs Output Voltage 120V

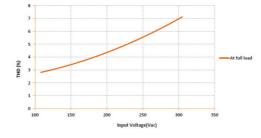




79366 - OT180W - Efficiency vs Output Voltage 277V

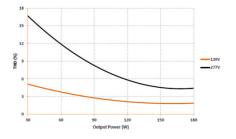
79366 - OT180W - Power Factor Performance Input Voltage

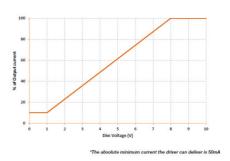




79366 - OT180W - Power Factor Performance Output Power

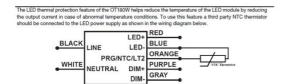


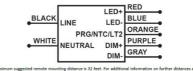




79366 - OT180W - THD Performance Output Power

79366 - OT180W - Dimming - Curve

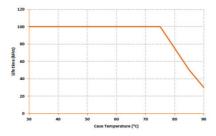




compliance reference application note LED126. <u>Note 2:</u> The Dimming input is isolated and will allow Class 2 or non-Class 2 wiring across Purple and Gray wires

79366 - OT180W - LED - Thermal - Protection - NTC

79366 - OT180W - Wiring - Diagram



79366 - OT180W - Lifetime - Case - Temp

Electrical specifications - Dimming

| Dimming Control | 0 – 10V (Isolated), AstroDIM ¹⁾ | | |
|-----------------|--|--|--|
| Dimming Range | 10-100% (50mA min) | | |
| Dimming Type | Analog | | |

 $^{1)}$ Class 2 or non-Class 2 wiring allowed. CAUTION: More than one power supply present.

Electrical specifications - Input

| Efficiency @ Full load 120V ≥90% | | | |
|---|----------------------|--|--|
| Efficiency @ Full load 277V | ≥92% | | |
| Frequency Range (Hz) | 50 – 60 Hz (+/- 10%) | | |
| Input Current (A) 120V | 1.7 | | |
| Input Current (A) 277V | 0.75 | | |
| Input Voltage (VAC) | 120V-277V (+/- 10%) | | |
| Inrush Current (Apk, T@50% of Apk) 120V | 44A, 190µs | | |
| Inrush Current (Apk, T@50% of Apk) 277V | 131A, 190µs | | |
| Power Factor @ Full load 120V | >0.95 | | |
| THD @ Full load 120V | <15% | | |
| THD @ Full load 277V | <20% | | |

Electrical specifications - Output

| Line Regulation | < 5% | | |
|---------------------------------|--|--|--|
| Load Regulation | < 5% | | |
| Max. Output Power (W) | 180W | | |
| Output Current (mA) | 350-800mA, 1mA resolution (programmable), 530mA Default | | |
| Output Ripple Current | < 20% @ 800mA | | |
| Output Short-Circuit Protection | Yes, non- latching | | |
| Output Voltage (VDC) | 82-280VDC | | |
| Over Load Protection | Power fold back @ 185W | | |
| Over Temperature Protection | Yes, fold back at 90°C, auto recovery | | |
| Over Voltage Protection | Yes, non- latching | | |

Environmental specifications

| Ambient Operating Temperature | -40°C to 55°C | | |
|-------------------------------|---------------------|--|--|
| Case Temperature (Tc) | 85°C ¹⁾ | | |
| EMI Compliance | FCC Part 15 Class A | | |
| IP Rating | IP66 | | |
| Max. Relative Humidity (%) | 95% non-condensing | | |
| Max. Storage Temp. | 70°C | | |
| Sound Rating | Class A | | |
| Transient Protection | ANSI C62.41 Cat.B | | |
| UL Environmental Rating | Dry & Damp | | |
| UL File number | E320395 | | |

1) Warranty applicable only at 85°C

Packaging Information

| Item number | EAN/UPC | Packaging | Quantity | Outside dimensions l x w x h | Gross weight |
|-------------|---------------|---------------------|----------|------------------------------|--------------|
| 79366 | 4052899166097 | Unpacked (SKU) | 1 | 9.5 in x 2.4 in x 1.5 in | 2.2 lb |
| 79366 | 4052899156722 | Shipping box (Case) | 10 | 13.9 in x 10.1 in x 4.1 in | 22.5 lb |

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

Disclaimer

For information on specific product warranties, visit www.osram.us/warranty. Specifications are subject to change without notice.

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