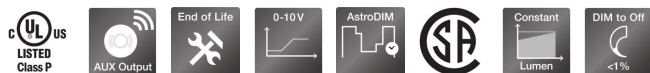


OPTOTRONIC Outdoor Programmable LED Power Supplies

79278 / OTi50/UNV/2100C/2DIMLT2/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

Product Name	OTI50UNV2100C2DIMLT2P6 20/CS 1/SKU
Ordering Abbreviation	OTI50/UNV/2100C/2DIMLT2/P6
Brand Name	OSRAM
General Description	50W 2.1A Outdoor LED Driver
Programmable Features	Output Current, Dimming Level, LED thermal protection, AstroDIM, LedSet Gen2, Constant lumen output, End-of-Life indicator
Product Number	79278

Electrical data

Nominal Total Max Wattage	65 W
Nominal Voltage	120-277 V

Dimensions & weight

Ballast Height (in)	1.18 in
Ballast Length (in)	6.61 in
Ballast Width (in)	1.71 in

Electrical specifications - Dimming

Dimming Control	0 – 10V (Isolated), AstroDIM ¹⁾
Dimming Range	10-100%
Dimming Type	Analog
Source/Sink Current	1mA

¹⁾ CAUTION: More than one power supply present

Electrical specifications - Input

Efficiency @ Full load 120V	≥85%
Efficiency @ Full load 277V	≥85%
Frequency Range (Hz)	50 – 60 Hz (+/- 10%)
Input Current (A) 120V	0.5
Input Current (A) 277V	0.22
Input Voltage (VAC)	120V-277V (+/- 10%)
Inrush Current (Apk, T@50% of Apk) 120V	41A @ 160µs
Inrush Current (Apk, T@50% of Apk) 277V	60A @ 135µs
Power Factor @ Full load 120V	>0.9
Power Factor @ Full load 277V	>0.9
THD @ Full load 120V	<20%

Product datasheet

THD @ Full load 277V	<20%
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Electrical specifications - LED thermal protection (NTC)

NTC Value Active Range	$\leq 25k\Omega$ ¹⁾
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¹⁾ External NTC cannot leave the fixture The PRG/ NTC control circuit terminals or lead wires are not isolated

Electrical specifications - Output

LED Power-Up Time	< 1sec
Line Regulation	< 5%
Load Regulation	< 5%
Max. Output Power (W)	50W
Output Current (mA)	1000 - 2100 mA (1mA step)
Output Ripple Current	< 25%
Output Short-Circuit Protection	Yes, non-latching
Output Voltage (VDC)	15-55 VDC (Class 2)
Over Load Protection	Yes, power fold back
Over Temperature Protection	Yes, foldback to 60% at 100°C & recovery at 95°C (+/- 5°C)
Over Voltage Protection	Yes, non-latching

Environmental specifications

Ambient Operating Temperature	-40°C to 55°C
Case Temperature (T _c)	85°C, 90°C (max)
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, 6.0kV
UL Environmental Rating	Damp & Wet
UL File number	E320395

Packaging Information

Item number	EAN/UPC	Packaging	Quantity	Outside dimensions l x w x h	Gross weight
79278	4052899362529	Unpacked (SKU)	1		
79278	4052899362536	Shipping box (Case)	20	11.3 in x 7.3 in x 6.3 in	17.6 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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