

OPTOTRONIC® X-Series

Programmable Constant Current Outdoor Dimmable LED Drivers



The OPTOTRONIC X-Series programmable dimmable family consists of highly efficient, constant current LED drivers for outdoor applications. One click programming through the OPTOTRONIC Programmer allows OEMs to configure the output current with 1mA resolution.

These drivers are available in dimming to 10% with built-in 0-10V dimming and Dim-to-Off capability, enables direct integration and operation with standard dimmers and sensors, as well as energy and light management systems.

The compact metal case and high efficiency enable the driver to operate with high reliability and to extend product lifetime. Overall protection is provided against lightning surge, output over-voltage, short circuit, and over-temperature, ensuring low failure rate.

Key Features & Benefits

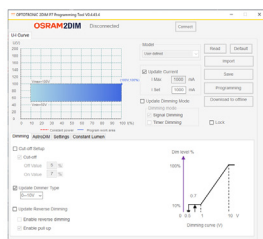
- OEM programmable with 1mA resolution to perfectly match LED load and maximize performance
- Dimming down to 10% on 0-10V dimmers
- Integrated OEM programmable features include
 - 3-in-1 dimmable: 0-10V_{DC}, PWM, Timer dimming
 - Dim-to-Off
 - Constant lumen maintenance
- Programming doesn't require powering up or connecting the power supply to AC line voltage
- Surge protection: 5KV line-line, 10KV line-earth
- Protections: SCP, OVP, OTP
- Universal Input Voltage 120-277V_{AC} 50/60Hz
- UL Dry, Damp and Wet Rated
- IP67 Rated
- UL recognized

Product Offering

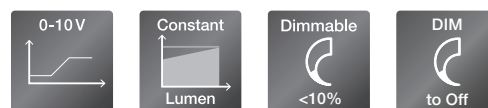
Maximum Power	Input Voltage	Minimum Dimming	Output Current Range
75	120-277V	10%	190-1880mA
75	120-277V	10%	110-1050mA
100	120-277V	10%	140-1400mA
100	120-277V	10%	110-1050mA
150	120-277V	10%	210-2100mA
150	120-277V	10%	150-1500mA
150	120-277V	10%	110-1050mA
200	120-277V	10%	210-2100mA
200	120-277V	10%	150-1500mA
200	120-277V	10%	110-1050mA

Configuration Overview

1. Program Units



2. Configurable Features



Light is OSRAM

OSRAM

Application Information

Applications

- Architectural building mounted

— Bollards

— Cobra heads

— High-mast
- Industrial high bay

— Mini wall packs

— Roadway lighting

— Shoe box

Specifications and Certifications



Electrical Specifications

Maximum Output Power (W)	Nominal Input Voltage (V _{ac})	Maximum Input Current (A)	Power Factor	THD	Line Transient	Efficiency	Environmental Rating	Dimensions (mm)
75	120-277V, 50/60Hz	1.1A	>0.9	<20%	5KV line-line, 10KV line-earth	≥89.00%	Dry, Damp, Wet	128.6 x 68 x 37
100	120-277V, 50/60Hz	1.5A	>0.9	<20%	5KV line-line, 10KV line-earth	92.00%	Dry, Damp, Wet	153.6 x 68 x 37
150	120-277V, 50/60Hz	2.0A	>0.9	<20%	5KV line-line, 10KV line-earth	92.00%	Dry, Damp, Wet	173.6 x 68 x 37
200	120-277V, 50/60Hz	2.8A	>0.9	<20%	5KV line-line, 10KV line-earth	≥93.00%	Dry, Damp, Wet	193.6 x 68 x 39

Ordering Information

Item Number	Ordering Abbreviation	Total Output Power (W)	Output Current Range (mA)	Default Current Setting (mA)	Output Voltage Range (V _{oc})	Dimming Control	Dimming Range	Dim-to-Off
57558	OT75/UNV/1A9/2DIM/P7	75	190-1880	1250	38-62	0-10V	10-100%	Yes
57559	OT75/UNV/1A0/2DIM/P7	75	110-1050	700	54-108	0-10V	10-100%	Yes
57560	OT100/UNV/1A4/2DIM/P7	100	140-1400	1250	50-100	0-10V	10-100%	Yes
57561	OT100/UNV/1A0/2DIM/P7	100	110-1050	700	75-150	0-10V	10-100%	Yes
57562	OT150/UNV/2A1/2DIM/P7	150	210-2100	1400	54-108	0-10V	10-100%	Yes
57563	OT150/UNV/1A5/2DIM/P7	150	150-1500	1250	80-143	0-10V	10-100%	Yes
57564	OT150/UNV/1A0/2DIM/P7	150	110-1050	700	107-214	0-10V	10-100%	Yes
57565	OT200/UNV/2A1/2DIM/P7	200	210-2100	1400	70-143	0-10V	10-100%	Yes
57566	OT200/UNV/1A5/2DIM/P7	200	150-1500	1250	96-191	0-10V	10-100%	Yes
57567	OT200/UNV/1A0/2DIM/P7	200	110-1050	700	143-286	0-10V	10-100%	Yes

Ordering Guide

OT	75	/	UNV	/	XAX	/	2DIM	/	P7
OPTOTRONIC	Output Wattage 75 Watts		Input Voltage UNV = 120-277V		Max output current 1A9 = 1900mA 1A0 = 1000mA 2A1 = 2100 mA		0-10V Dimming		IP67

Accessories

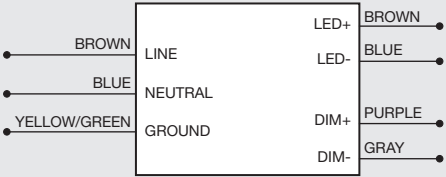


Item Number	Ordering Abbreviation	Description	Required Accessory
57568	OT Programmer	USB Programming Tool	Yes

Minimum and Maximum Ratings

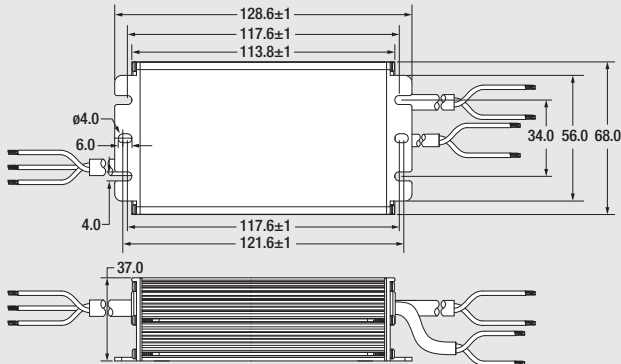
Parameter	Values
Input Voltage Range	108 to 305V _{ac}
Maximum Case Temperature (T _c point)	90°C (194°F)
Maximum Case Temperature for 5 year life and warranty	75°C (167°F)
Ambient Operating Temperature (reference)	-25°C to 55°C (-13°F to 131°F)
Storage Temperature	85°C Max (185°F)
Maximum Relative Humidity	95% (Non-condensing)

Wiring Diagram

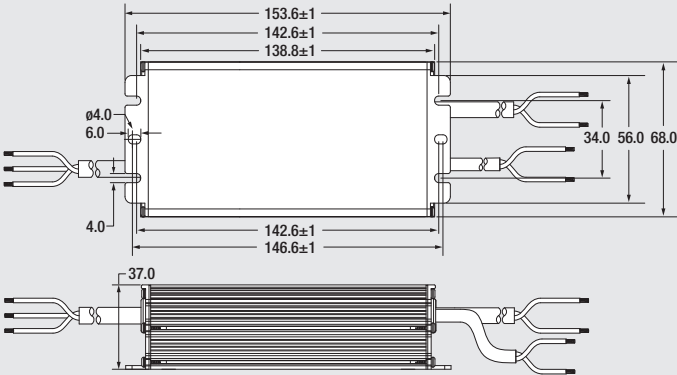


Assembly Diagram

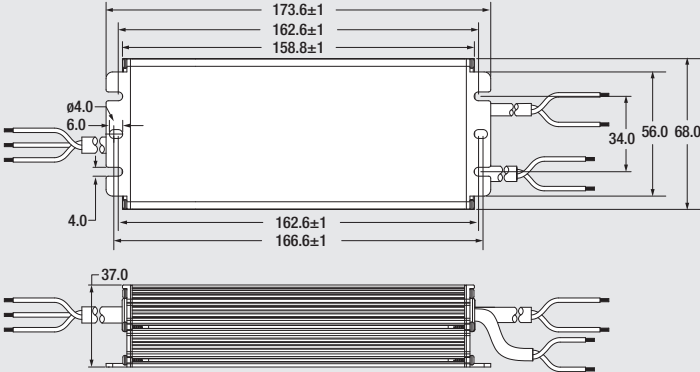
OT75W



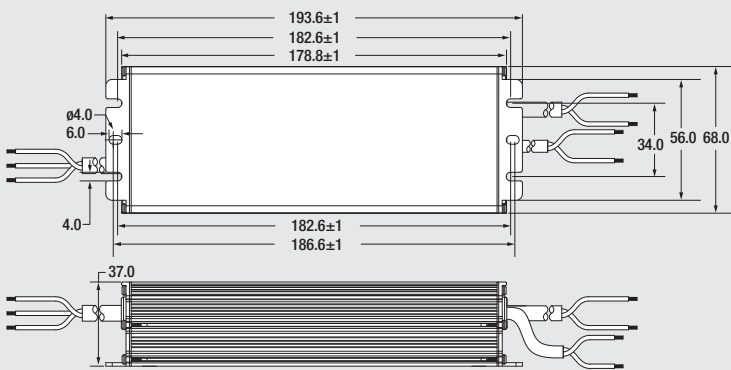
OT100W



OT150W

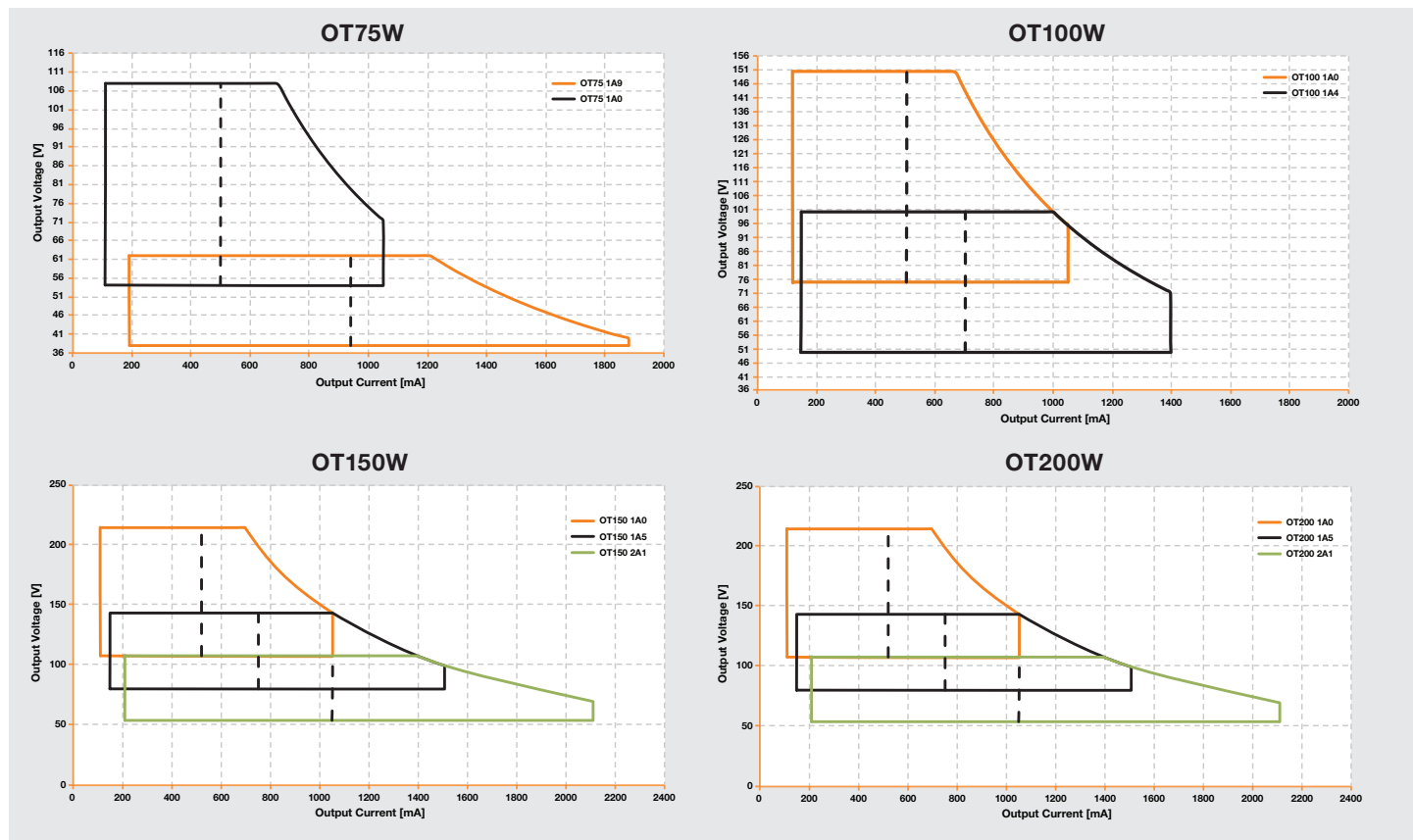


OT200W



Dimensions in mm

Operating Range



Packaging

OT75W	OT100W	OT150W	OT200W
Quantity: 490 pieces per pallet	Quantity: 490 pieces per pallet	Quantity: 490 pieces per pallet	Quantity: 420 pieces per pallet

Warranty

The OPTOTRONIC® X-Series is covered under the standard 5-year OSRAM warranty at Tc 75°C.

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