

## OPTOTRONIC Linear Programmable LED Drivers

79675 / OTi 30/347/1A0 DIM-1 L



The OPTOTRONIC programmable dimmable family consists of highly efficient linear constant current LED power supplies. One click programming through the OPTOTRONIC programmer allows OEMs to configure the output current with 1mA resolution. Also fully customizable by customers are the end of life indicator, LED thermal protection and the constant lumen maintenance features. The OPTOTRONIC programmer does not require the power supply to be powered up or connected to AC line voltage while programming. The power supplies are available with built-in 0-10V dimming protocol with models available in 1% to 10%. The auxiliary output has the capability to power various sensors and is optimized for the OSRAM Connected Lighting Module (CLM).



### Product family features

- OEM Programmable with 1mA resolution to perfectly match LED load and maximize performance
- Integrated OEM programmable features include: - Constant lumen maintenance - End of life indication - LED thermal protection
- Programming doesn't require powering up or connecting the power supply to AC line voltage
- Specification grade dimming down to 1% or 10% on 0-10V dimmers
- Available optional auxiliary output to power 12 V, 20 V, and 24 V low power applications
- Slim form factors
- Input voltage: - Universal 120-277 V<sub>AC</sub> 50/60Hz - 347 V<sub>AC</sub> 50/60 Hz
- UL Class 2 output for safe operation

### Areas of application

- Indirect/direct
- Linear
- Recessed troffer

# Product datasheet

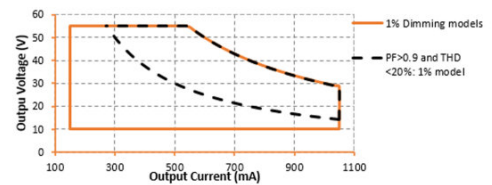
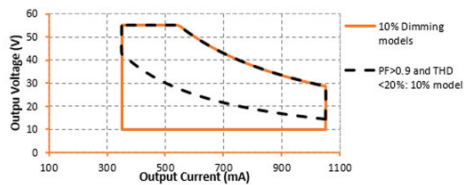
## Technical data

### General product information

Product Name	OTI303471A0DIM1L 10/CS 1/SKU
Ordering Abbreviation	OTi 30/347/1A0 DIM-1 L
Brand Name	OSRAM
General Description	30W Linear Programmable LED driver for 347V input voltage. Dimmable with 0-10V to 1%.
Programmable Features	Output current/Dimming level/Dim-to-off, Soft Start/LED thermal protection/Auxiliary output voltage/Constant lumen output/End-of-life indicator
Programming Tool	51645 & 51647/51648
Type	Constant Current, Class2
Product Number	79675

### Electrical data

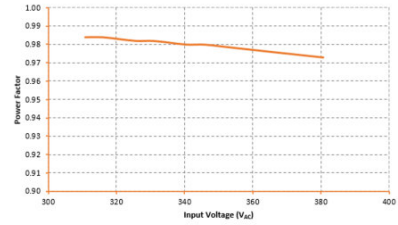
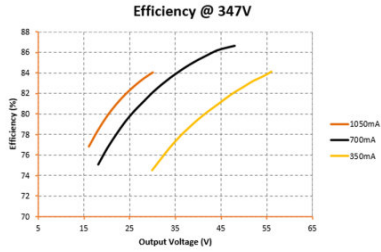
Nominal Total Max Wattage	30 W
Nominal Voltage	347 V



OTi30 Linear Driver Operating Range 10%

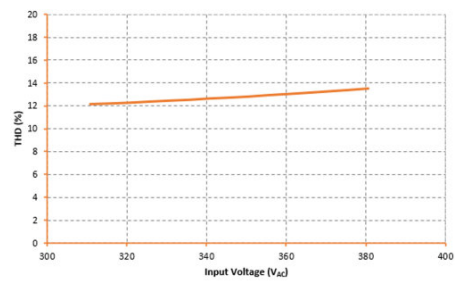
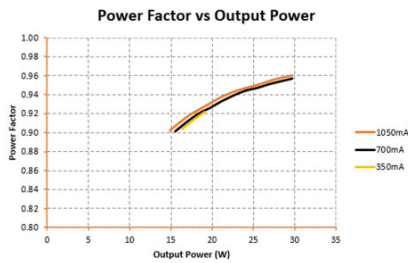
OTi30 Linear Driver Operating Range 1%

Product datasheet



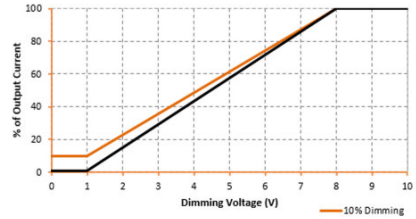
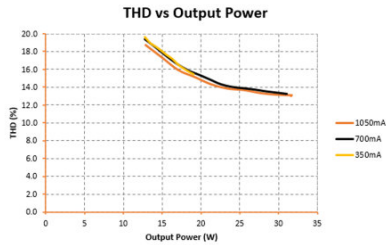
OTi30 347V Linear Driver Efficiency vs Output Voltage

OTi30 347V Linear Driver Power Factor vs Input Voltage



OTi30 Linear Driver Power Factor vs Output Voltage 120V

OTi30 Linear Driver THD vs Input Voltage



OTi30 Linear Driver THD vs Output Voltage 120V

OTi30 347V Linear Driver Dimming Curve

**Electrical specifications - Auxiliary output (for AUX models only)**

Output Current (mA) Aux Only	40
Output Voltage (VDC) Aux Only	12/20/24V (configurable)
Voltage Regulation	+/- 10%

**Electrical specifications - Dimming**

Dimming Control	0 – 10V (Isolated) <sup>1)</sup>
Dimming Input Isolation [CRM]	2.5kV
Dimming Range	1-100%
Dimming Type	Analog , PWM (≥1kHz) <sup>2)</sup>
Dim-to-Off OFF/ON	0.8V
Source/Sink Current	0.2mA

<sup>1)</sup> CAUTION: More than one power supply present

<sup>2)</sup> The output is in PWM mode under 350mA. The lowest output current is 2mA for 1% dimmable driver models.

**Electrical specifications - Input**

Frequency Range (Hz)	50 – 60 Hz (+/- 10%)
Input Voltage (VAC)	347V (+/- 10%)
Efficiency @ Full load 347V	≥85%
Input Current (A) 347V	0.13
Inrush Current (Apk, T@50% of Apk) 347V	6.25, 25.8s

## Product datasheet

Power Factor @ Full load 347V	>0.9
THD @ Full load 347V	<10%

### Electrical specifications - LED thermal protection (NTC)

NTC Value Active Range	$\leq 25k\Omega$ <sup>1)</sup>
Temperature Derating start	User defined

<sup>1)</sup> 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)	30W
Output Current (mA)	150-1050mA
Output Ripple Current	<20% @ 1400mA
Output Short-Circuit Protection	Yes, non-latching
Output Voltage (VDC)	10-55VDC <sup>1)</sup>
Over Load Protection	Yes, non-latching
Over Temperature Protection	Foldback at 110°C
Over Voltage Protection	Yes, non-latching

<sup>1)</sup> Default V Aux is 12V

### Environmental specifications

Ambient Operating Temperature	-30°C to 50°C
Case Temperature (Tc)	75°C (50kHrs)/90°C (0kHrs) <sup>1)</sup>
EMI Compliance	FCC Part 15 Class A
Max. Relative Humidity (%)	85% non-condensing
Max. Storage Temp.	70°C
Sound Rating	Class A
Transient Protection	NEMA SSL 1 - 2010 / Non-Roadway 2.5KV
UL Environmental Rating	Dry & Damp
UL File number	E320395

<sup>1)</sup> Warranty applicable only at 80°C

### Packaging Information

Item number	EAN/UPC	Packaging	Quantity	Outside dimensions l x w x h	Gross weight
79675	4052899492882	Unpacked (SKU)	1		
79675	4052899354265	Shipping box (Case)	10	12.3 in x 6.5 in x 2.5 in	5.6 lb

## Product datasheet

Item number	EAN/UPC	Packaging	Quantity	Outside dimensions L x w x h	Gross weight
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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.

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### Accessories Mandatory

Product name	Accessory name	Item number	EAN/UPC
OTi 30/347/1A0 DIM-1 L	OT PROGRAMMER	51645	▶ 4052899209640

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### Disclaimer

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