



The FieldSET OTi180W 277-480V is an efficient, dimmable, linear LED driver for outdoor applications. This programmable driver is compatible with the FieldSET LED Driver Programming Tool which provides visual and audible feedback programming. The FieldSET OTi180W is designed for in-field programming and replacement.

### Driver Overview

- Intended for use in LED fixtures including industrial, high-bay, outdoor, and cobra-head fixtures.
- 180W Output
- 0-10V Dimming with 10% Minimum Dim Level
- IP66 Rated

### General Information

Drive Description	180W 277-480V; 10% min dim
Type	Constant Current
Output Power	180W (Max.)
Programming Tool	FieldSET LED Driver Programmer
Field Programmable Features	Output Current Dimming Level Dim-to-Off

### Environmental Specifications

Ambient Operating Temperature	-40°C to 55°C
Max. Case Temperature (Tc)	85°C <sup>1</sup> 90°C (Max.)
Max. Storage Temp.	70°C
Max. Relative Humidity (%)	95% non-condensing
Transient Protection	ANSI C82.77-5 6.0kV, 4kV EFT
UL Environmental Rating	UL CLASS P, Dry and Damp, Type HL
UL File number	E320395
IP Rating	IP66
EMI Compliance	FCC 47 Part 15 Class A
Sound Rating	Class A

<sup>1</sup> 5 year warranty applicable at 85°C

### Electrical Specifications

#### Input

Input Voltage (VAC)	277-480V (+/-10%)		
Frequency Range (Hz)	50-60 Hz (+/- 10%)		
	<b>277V</b>	<b>347V</b>	<b>480V</b>
Input Current (A)	0.71A	0.4	0.4
THD @ Full load	<15%	<15%	<15%
Power Factor @ Full load	>0.95%	>0.95	>0.95
Efficiency @ Full load	≥92%	≥94%	≥94%
Inrush Current (Apk)	51.7	65.0	98.9
Inrush Pulse Width	267μs	269μs	250μs

#### Output

Output Current (mA)	600-1250mA (1mA step)
Output Voltage (VDC)	70-210VDC
Output Ripple Current	<15% @1250mA
Max. Output Power (W)	180W
LED Power-Up Time	<1 sec
Load Regulation	<5%
Line Regulation	<5%
Over Voltage Protection	Yes, non-latching
Over Load Protection	Power fold back @ 210W
Output Short-Circuit Protection	Yes, non-latching
Over Temperature Protection	Foldback to 60% at 100°C, Auto Recovery

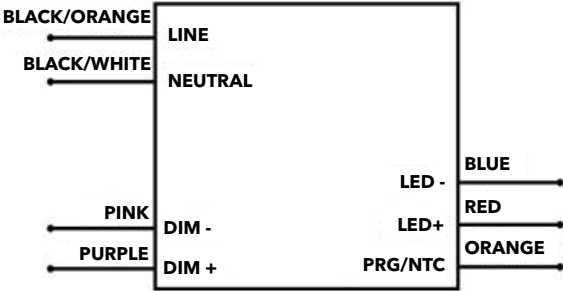
### Dimming

Dimming Control	0-10V (Isolated) <sup>1</sup> , AstroDIM
Dimming Range	10-100% (50mA Min.)
Dimming Type	Analog
Source/Sink Current	0.8mA
Dim-to-Off OFF/ON Threshold	0.91V/1.01V
Dim-to-Off Standby Power	< 1.5W (without AUX) < 3W (with AUX)

**CAUTION:** More than one power supply present; Compliant with ANSI C137.1  
<sup>1</sup> Class 2 or non-Class 2 wiring allowed.



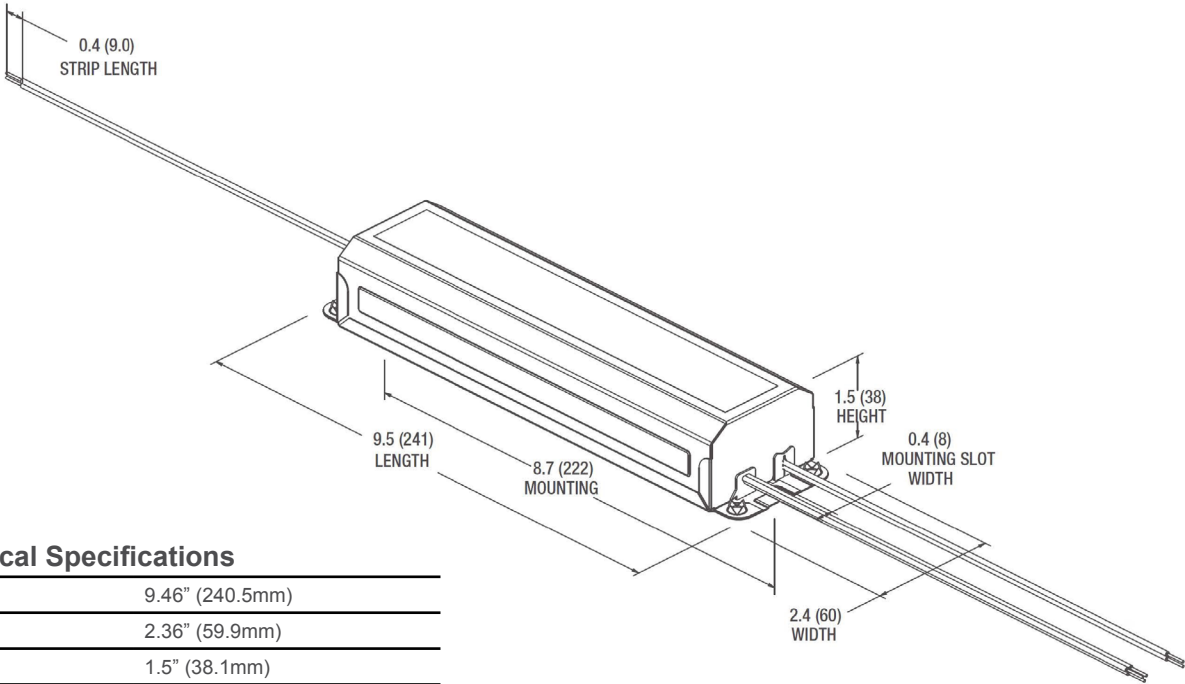
Wiring Diagram



NOTES:

Maximum remote mounting distance is 16 feet.  
The Dimming input is isolated and will allow Class 2 or non-Class 2 wiring across Purple and Gray wires.

Mechanical Diagram



Mechanical Specifications

Length	9.46" (240.5mm)
Width	2.36" (59.9mm)
Height	1.5" (38.1mm)
Mounting Length	8.9" (226.3mm)
Mounting Slot Width	0.34" (8.7mm)

Inrush Characteristic

Vin (V)	Ipeak (A)	T(@ 10% of Ipeak)
277	51.7	267µs
347	65.0	269µs
480	98.9	250µs

Complies to NEMA 410 inrush current requirements.

### Ordering Information

Series	Driver Type	Wattage	Input Voltage	Output Current	Control	IP Rating	Programmer
FieldSET	OTi	180W	277-480V	1250C	2DIM	P6	FS

Understanding Your Driver Model			
<b>FieldSET</b>	Field Service Solution	<b>1250C</b>	1250mA Output (600 to 1250mA output range)
<b>OTi</b>	OTi Intelligent Driver	<b>2DIM</b>	0-10V Dimming plus Astro Dim
<b>180W</b>	180W Output	<b>P6</b>	IP66 Rating
<b>277-480V</b>	277-480VAC Input	<b>FS</b>	Programmed using FieldSET Programmer Tool

CI Code	UPC
*281L5G	196183649805

### Warranty

FieldSET and OPTOTRONIC® by eldoLED Products are covered by a 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms can be found at: [www.eldoled.com/legal/terms-and-conditions](http://www.eldoled.com/legal/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.