

OPTOTRONIC®

Programmable Constant Current Dimmable LED Power Supplies



Key Features & Benefits

- Customer programmable with 1 mA resolution to perfectly match LED load and maximize performance
- Programming does not require powering up or connecting the power supply to AC line voltage
- Wide output current and voltage range
- Available in dimming to 1% or 10% with 0–10V dimmers
- Integrated, customer configurable, LED thermal protection feature
- Familiar standard industry housing - 5.0" x 2.4" x 1.2" (L x W x H)
- Available with mounting feet (F-style) or PEM studs (J-style) to simplify installation
- Universal Input Voltage - 120–277V AC 50/60Hz
- UL Class 2 output for safe operation

The OPTOTRONIC programmable dimmable family consists of highly efficient, constant current 40W LED power supplies. They are customer programmable between the range of 400 to 1400 mA with a 1 mA resolution. 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 in dimming to 1% or 10% with built-in 0–10V dimming enabling direct integration and operation with standard dimmers, sensors, as well as energy and light-management systems. In case of LED module thermal overload, the OT40W's integrated LED thermal protection function allows the power supply to reduce the output current. This function is fully customizable by the customer. The family comes in a standard industry housing with dual entry connectors to simplify installation.

Product Offering

Max. Power	Housing Type	Connectors	Minimum Dimming	Output Current Range
40W	F-style (feet)	Dual Entry	1% 10%	400-1400 mA
40W	J-style (PEM studs)	Bottom Feed	1% 10%	400-1400 mA

Application Information

Applications

- Downlights
- In-grade fixtures
- Recessed troffer
- Wall washing

Specifications and Certifications



This light source meets restrictions on hazardous substances.



Compliant to 47 CFR, Part 15 Class A



Specification Data

Catalog #	Type
Project	
Comments	
Prepared by	

Electrical Specifications

Maximum Output Power (W)	Nominal Input Voltage (VAC)	Maximum Input Current (A)	Power Factor	THD	Line Transient	Efficiency	Environmental Rating	UL File #
40W	120-277VAC 50/60 Hz	0.42 @ 120V 0.17 A @ 277V	>0.9	<20%	ANSI C62.41 Cat.A	85% Typical	Damp	E320395

Ordering Information

Item Number	Ordering Abbreviation	Output Current Range (mA) ¹	Output Voltage Range (VDC)	Dimming Control	Dimming Range	LED Thermal Protection	Housing Type
79441	OT40W/PRG1400C/UNV/DIM-1/J	400-1400 mA (programmable)	10-55V	0-10V	1-100%	Yes	J-Style
79442	OT40W/PRG1400C/UNV/DIM-1	400-1400 mA (programmable)	10-55V	0-10V	1-100%	Yes	F-Style
79449	OT40W/PRG1400C/UNV/DIM/J	400-1400 mA (programmable)	10-55V	0-10V	10-100%	Yes	J-Style
79448	OT40W/PRG1400C/UNV/DIM	400-1400 mA (programmable)	10-55V	0-10V	10-100%	Yes	F-Style

1. Default output current 700 mA

Ordering Guide

OT	40W	/	PRG	1400C	/	UNV	/	DIM-1	/	J
OPTOTRONIC®	Output Wattage		Programmable	Max. Output Current (mA)		Input Voltage (120-277V)		0-10V Dimmable		J-Style Housing

Accessories

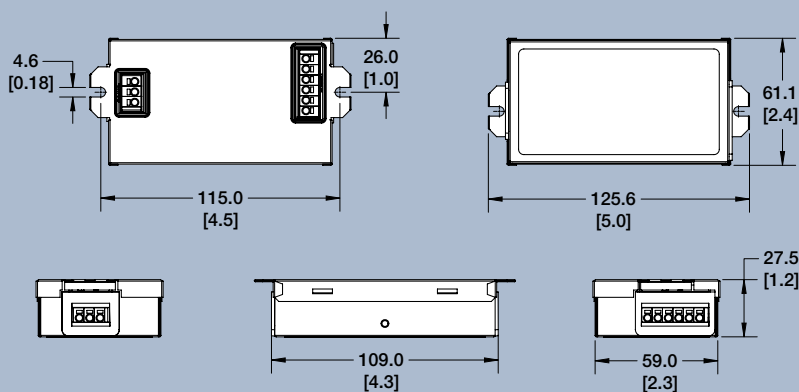
Item Number	Ordering Abbreviation	Description	Required Accessory
51645	OT Programmer	USB Programming Tool	Yes
51646	OT Programming nest	Programming fixture for OT40W	Optional

Minimum and Maximum Ratings

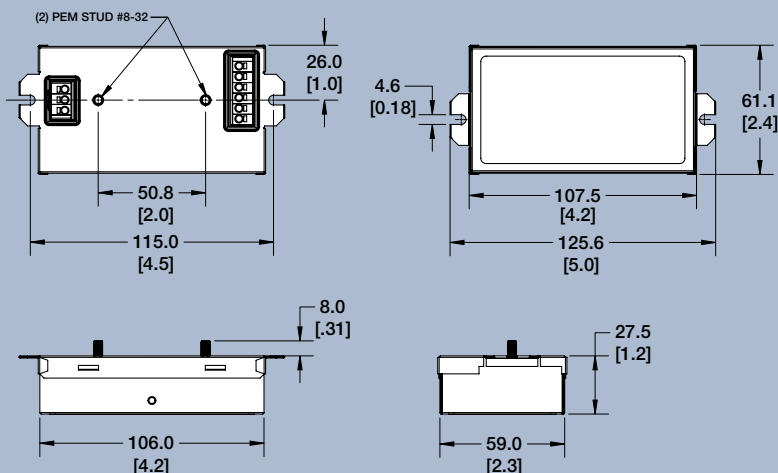
Parameter	Values
Input Voltage Range	108 - 305VAC
Maximum Case Temperature (Tc point)	85°C (185°F)
Maximum Case Temperature for 5 year life and warranty	75°C (165°F)
Ambient Operating Temperature (reference)	-35°C to 50°C (-31°F to 122°F)
Storage Temperature	-35°C to 75°C (-31°F to 167°F)
Maximum Relative Humidity	85% (Non-condensing)

Assembly Diagram

F-Style

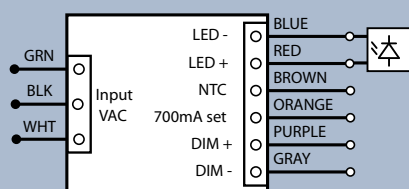


J-Style

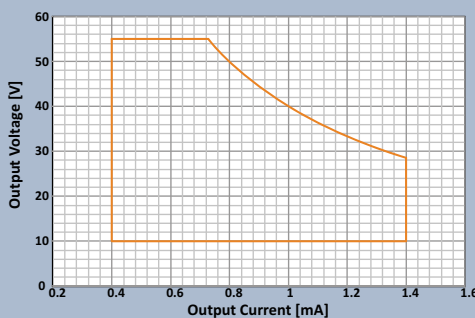


Dimensions: mm [in]

Wiring Diagram and Operating Range



Connect 700mA set (ORANGE) to LED - (BLUE) to set output current to 700 mA



Warranty

OPTOTRONIC® Products are covered by our LED Module, OPTOTRONIC Power Supply or Control Warranty. For additional details, refer to the latest version of the warranty (LED089) available at www.sylvania.com.

Packaging

Quantity: 20 pieces per case
Weight: 0.5 lbs ea./10 lbs per case (approx.)

United States OSRAM SYLVANIA

100 Endicott Street
Danvers, MA 01923
1-800-LIGHTBULB

Trade

Phone: 800-255-5042
Fax: 800-255-5043

National Accounts

Phone: 800-562-4671
Fax: 800-562-4674

OEM/Special Markets

Phone: 800-762-7191
Fax: 800-762-7192

Retail

Phone: 800-842-7010
Fax: 800-842-7011

SYLVANIA Lighting Services

Phone: 800-323-0572
Fax: 800-537-0784

Display/Optic

Phone: 888-677-2627
Fax: 855-543-1043

Canada

OSRAM SYLVANIA LTD.

2001 Drew Road
Mississauga, ON L5S 1S4
1-800-LIGHTBULB

Trade

Phone: 800-263-2852
Fax: 800-667-6772

OEM/Special Markets/Display/Optic

Phone: 800-265-2852
Fax: 800-667-6772

Retail

Phone: 800-720-2852
Fax: 800-667-6772

SYLVANIA Lighting Services

Phone: 800-663-4268
Fax: 866-239-1278

Mexico

OSRAM MEXICO

Tultitlan/Edo de Mexico
Phone: 011-52-55-58-99-18-50

ENCELIUM® Products

United States

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