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ECO™ EXT (DIMMABLE)

www.trulygreensolutions.com

tgs
TRULY GREEN SOLUTIONS

Features



3 LENGTHS
AVAILABLE IN
10W/15W/18W



EXPECTED LIFE
OVER 50,000 HRS



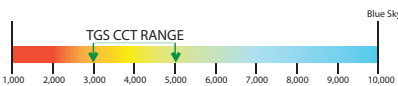
IES FILES @
www.trulygreensolutions.com



SUITABLE FOR
DAMP LOCATIONS



GLARE FREE
PC LENS



SELECTION OF
COLOR RANGES

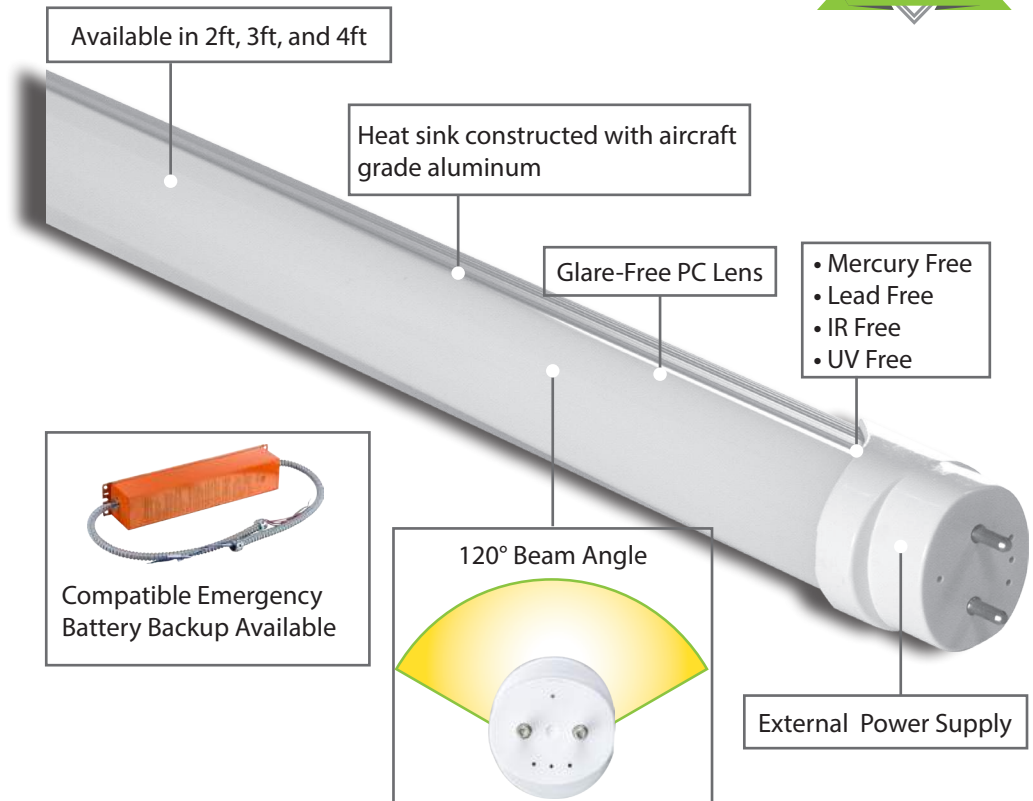
- Type A : Ballast Compatible
- Type B : Bypass Ballast
- Type A/B : Ballast Compatible
or Bypass Ballast
- Type C : External Power**



MULTIPLE
TUBE/ DRIVER
COMBINATIONS



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Applications



Parking Garage



Mall



Storage Facility



4' 18W SPECIFICATIONS



Replaces 4' T8
Fluorescent Tubes

Optical Details

System Efficacy	130 LpW
Lumen Output	2,340 lm
CCT	3000K, 3500K, 4000K, 5000K
Beam Angle	120°
CRI	>80
System Efficiency	N/A

Electrical Details

Input Voltage	100-277V AC (347V Available)
Power Frequency	50-60 Hz
Output Voltage	28-40v
Output Current	540mA
Power Efficiency	90%
Power Factor	>0.90
Total Harmonic Distortion	<20%
Dimmable	Yes (0-10V dimming)

Other Details

System Power Usage	18W
LED Power Usage	N/A
Fixture Material	Aluminum Base and PC Housing
Finish	N/A
Ingress Protection	Suitable For Damp Locations
Luminaire Net Weight	0.80 lbs (365g)
Lifespan	50,000+ Hours
Storage Temperature	-4°~122°F
Operating Temperature	-4°~104°F
Operating Humidity	N/A
Product Dimension	47.74x1.02 in (pin to pin)
Replaces	T8 Fluorescent

Application

• Offices	• Hospitals
• Industrial Shops	• Hotels
• Schools	• High / Low Bay
• Commercial Buildings	• Troffers / Strips

Base Options

• G13 Pin (Bi-pin)

Highlights

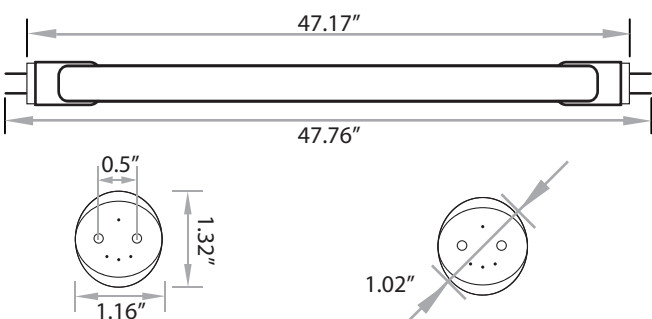
The TGS Eco™ EXT LED T8 lamp offers an easy and safe energy-saving retrofit solution for fluorescent T8 tubes, with 130 lumens per watt. The long-lasting and high-quality Eco™ EXT is powered by an external driver, allowing bypass of the existing ballast to eliminate compatibility issues and maintenance costs associated with ballasts.

The Eco™ EXT LED T8 lamp provides superior quality uniform, flicker-free lighting in a complete package. It uses about half the energy as fluorescent T8 tubes, with up to 70% reduction of overall operating costs. The UL, cUL, and RoHS certified lamps are available in 2', 3' and 4' lengths, in 3 different wattages (10W, 15W, and 18W), with the form, fit and function of traditional T8 fluorescent lamps. The Eco™ EXT is constructed with a polycarbonate optical diffuser, which provides a wide beam angle of 120° for comprehensive spatial illumination.

Featuring a unique advanced heat sink technology that ensures maximum thermal management, the Eco™ EXT is backed by a 5 year/50,000 hour warranty for a long life of maintenance-free service. Available CCT's are 3000K, 3500K, 4000K and 5000K.

Product Dimensions

Length: 47.76 in (1213mm) [Pin to Pin] Weight: 0.80 lbs (365g)
Length: 47.17 in (1198mm) [Cap to Cap] Diameter: 1.02 in (26mm)



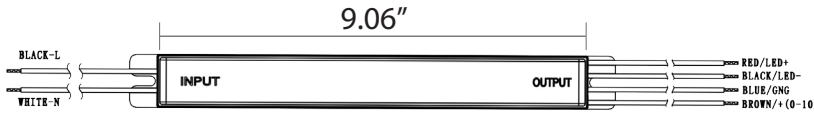
Driver Dimensions

Input

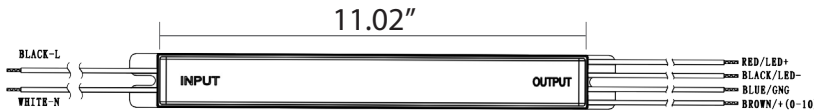
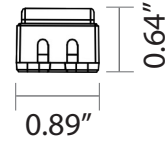
Wire Color	Assignment
Red	AC L
Black	AC N

Output

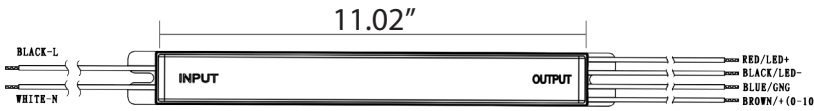
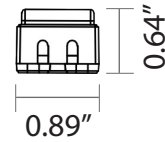
Wire Color	Assignment
Red	LED 1 +
Black	LED 1 -
Blue	GNG
Brown	+(0-10)



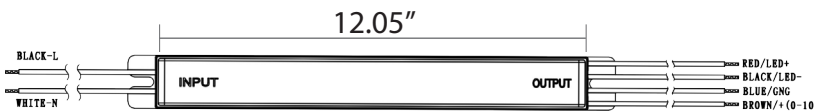
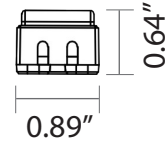
Rated Power: 10W Rated Current: 300mA
 Frequency: 50-60Hz DC Voltage: 36V
 Voltage Range: 100-277V AC Constant Current Region: 28-36V



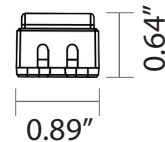
Rated Power: 15W Rated Current: 350mA
 Frequency: 50-60Hz DC Voltage: 40V
 Voltage Range: 100-277V AC Constant Current Region: 30-40V



Rated Power: 18W and 22W Rated Current: 540mA
 Frequency: 50-60Hz DC Voltage: 40V
 Voltage Range: 100-277V AC Constant Current Region: 30-40V



Rated Power: 30W Rated Current: 700mA
 Frequency: 50-60Hz DC Voltage: 40V
 Voltage Range: 100-277V AC Constant Current Region: 30-40V



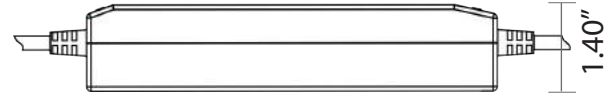
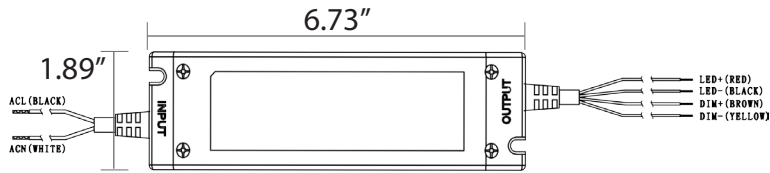
Driver Dimensions

Input

Wire Color	Assignment
Red	AC L
Black	AC N

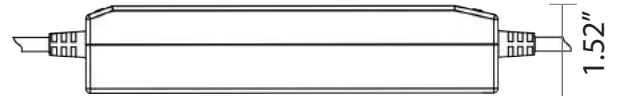
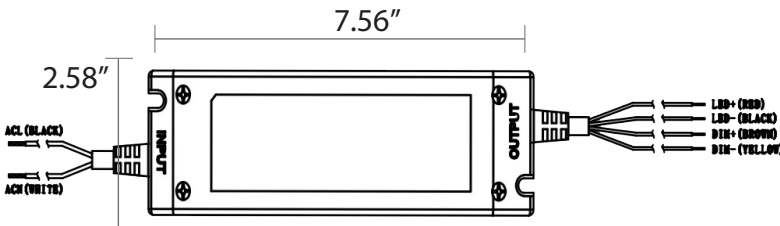
Output

Wire Color	Assignment
Red	LED 1 +
Black	LED 1 -
Blue	GNG
Brown	+(0-10)



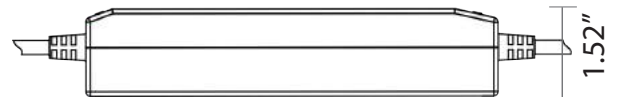
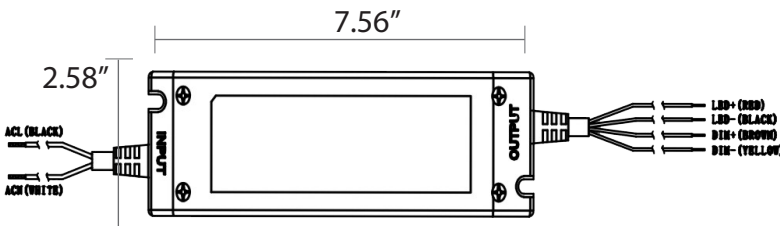
Rated Power: 40W
Frequency: 50-60Hz
Voltage Range: 100-277V AC

Rated Current: 1000mA
DC Voltage: 40V



Rated Power: 50W
Frequency: 50-60Hz
Voltage Range: 100-277V AC

Rated Current: 1500mA
DC Voltage: 28-40V



Rated Power: 60W
Frequency: 50-60Hz
Voltage Range: 100-277V AC

Rated Current: 1680mA
DC Voltage: 28-40V



Lumen Packages



1 Tube/1 Driver:	Driver:
10W (2') = 1,300 lm	10W
10W (3') = 1,300 lm	10W
15W (4') = 1,950 lm	15W
18W (4') = 2,340 lm	22W



3 Tube/1 Driver:	Driver:
10W (2') = 3,900 lm	30W
10W (3') = 3,900 lm	30W
15W (4') = 5,850 lm	40W
18W (4') = 7,020 lm	60W



2 Tube/1 Driver:	Driver:
10W (2') = 2,600 lm	22W
10W (3') = 2,600 lm	22W
15W (4') = 3,900 lm	30W
18W (4') = 4,680 lm	40W



4 Tube/1 Driver:	Driver:
10W (2') = 5,200 lm	40W
10W (3') = 5,200 lm	40W
15W (4') = 7,800 lm	50W

*4 Tube 2 Driver
Also Available

10W is available in 2' and 3'
15 and 18W are available in 4'

***Note:**
 - 10W Available in 2' and 3'
 - 15W and 18W Available in 4'

EXAMPLE NUMBER: 832110-40-L-F-A-D-D

83	Length	Wattage	CCT	Company Code	Lens Cover	Tube Quantity	D	Dimmable
ECO™ EXT (Type C)	21 - 24"	10 - 10W	50 - 5000K 40 - 4000K 35 - 3500K 30 - 3000K	L	F - Frosted	A - One Tube One Driver B - Two Tube One Driver C - Three Tube One Driver D - Four Tube One Driver	D	D - Dimmable

EXAMPLE NUMBER: 833110-40-L-F-A-D-D

83	Length	Wattage	CCT	Company Code	Lens Cover	Tube Quantity	D	Dimmable
ECO™ EXT (Type C)	31 - 36"	10 - 10W	50 - 5000K 40 - 4000K 35 - 3500K 30 - 3000K	L	F - Frosted	A - One Tube One Driver B - Two Tube One Driver C - Three Tube One Driver D - Four Tube One Driver	D	D - Dimmable

EXAMPLE NUMBER: 834115-40-L-F-A-D-D

83	Length	Wattage	CCT	Company Code	Lens Cover	Tube Quantity	D	Dimmable
ECO™ EXT (Type C)	41 - 48"	15 - 15W	50 - 5000K 40 - 4000K 35 - 3500K 30 - 3000K	L	F - Frosted	A - One Tube One Driver B - Two Tube One Driver C - Three Tube One Driver D - Four Tube One Driver	D	D - Dimmable

EXAMPLE NUMBER: 834118-40-L-F-A-D-D

83	Length	Wattage	CCT	Company Code	Lens Cover	Tube Quantity	D	Dimmable
ECO™ EXT (Type C)	41 - 48"	18 - 18W	50 - 5000K 40 - 4000K 35 - 3500K 30 - 3000K	L	F - Frosted	A - One Tube One Driver B - Two Tube One Driver C - Three Tube One Driver	D	D - Dimmable

Emergency Battery Backup Accessory Options

EXAMPLE NUMBER: 90018-H

900	Wattage	High Voltage
High Voltage LED Emergency Battery Backup	18 - 18W 25 - 25W	H

Accessory: Tombstone

EXAMPLE NUMBER: 9913-B

Tombstones	
Tombstones	9913-B (Shunted Tombstone Socket - Double-End Power)



For **One Tube and One Driver** replace the “X” with “A” in the SKU number:
EXAMPLE NUMBER: 832110-50-L-F-[A]-D-D

One Tube and One Driver SKU Numbers:

SKU Number	Base Type	Wattage	Color Temp (K)	Dimensions	Lumens (lm)	Input Voltage	Warranty	DLC® Qualified
832110-50-L-F-X-D-D	G13	10W	5000	23.62"x1.02"	1,300	100-277V	5 year	Yes
832110-40-L-F-X-D-D	G13	10W	4000	23.62"x1.02"	1,300	100-277V	5 year	Yes
832110-35-L-F-X-D-D	G13	10W	3500	23.62"x1.02"	1,300	100-277V	5 year	Yes
832110-30-L-F-X-D-D	G13	10W	3000	23.62"x1.02"	1,300	100-277V	5 year	Yes
833110-50-L-F-X-D-D	G13	10W	5000	35.71"x1.02"	1,300	100-277V	5 year	No
833110-40-L-F-X-D-D	G13	10W	4000	35.71"x1.02"	1,300	100-277V	5 year	No
833110-35-L-F-X-D-D	G13	10W	3500	35.71"x1.02"	1,300	100-277V	5 year	No
833110-30-L-F-X-D-D	G13	10W	3000	35.71"x1.02"	1,300	100-277V	5 year	No
834115-50-L-F-X-D-D	G13	15W	5000	47.76"x1.02"	1,950	100-277V	5 year	Yes
834115-40-L-F-X-D-D	G13	15W	4000	47.76"x1.02"	1,950	100-277V	5 year	Yes
834115-35-L-F-X-D-D	G13	15W	3500	47.76"x1.02"	1,950	100-277V	5 year	Yes
834115-30-L-F-X-D-D	G13	15W	3000	47.76"x1.02"	1,950	100-277V	5 year	Yes
834118-50-L-F-X-D-D	G13	18W	5000	47.76"x1.02"	2,340	100-277V	5 year	Yes
834118-40-L-F-X-D-D	G13	18W	4000	47.76"x1.02"	2,340	100-277V	5 year	Yes
834118-35-L-F-X-D-D	G13	18W	3500	47.76"x1.02"	2,340	100-277V	5 year	Yes
834118-30-L-F-X-D-D	G13	18W	3000	47.76"x1.02"	2,340	100-277V	5 year	Yes

For **Two Tube and One Driver** replace the “X” with “B” in the SKU number:
EXAMPLE NUMBER: 832110-50-L-F-[B]-D-D

Two Tube and One Driver SKU Numbers:

SKU Number	Base Type	Wattage	Color Temp (K)	Dimensions	Lumens (lm)	Input Voltage	Warranty	DLC® Qualified
832110-50-L-F-X-D-D	G13	10W	5000	23.62"x1.02"	2,600	100-277V	5 year	Yes
832110-40-L-F-X-D-D	G13	10W	4000	23.62"x1.02"	2,600	100-277V	5 year	Yes
832110-35-L-F-X-D-D	G13	10W	3500	23.62"x1.02"	2,600	100-277V	5 year	Yes
832110-30-L-F-X-D-D	G13	10W	3000	23.62"x1.02"	2,600	100-277V	5 year	Yes
833110-50-L-F-X-D-D	G13	10W	5000	35.71"x1.02"	2,600	100-277V	5 year	No
833110-40-L-F-X-D-D	G13	10W	4000	35.71"x1.02"	2,600	100-277V	5 year	No
833110-35-L-F-X-D-D	G13	10W	3500	35.71"x1.02"	2,600	100-277V	5 year	No
833110-30-L-F-X-D-D	G13	10W	3000	35.71"x1.02"	2,600	100-277V	5 year	No
834115-50-L-F-X-D-D	G13	15W	5000	47.76"x1.02"	3,900	100-277V	5 year	Yes
834115-40-L-F-X-D-D	G13	15W	4000	47.76"x1.02"	3,900	100-277V	5 year	Yes
834115-35-L-F-X-D-D	G13	15W	3500	47.76"x1.02"	3,900	100-277V	5 year	Yes
834115-30-L-F-X-D-D	G13	15W	3000	47.76"x1.02"	3,900	100-277V	5 year	Yes
834118-50-L-F-X-D-D	G13	18W	5000	47.76"x1.02"	4,680	100-277V	5 year	Yes
834118-40-L-F-X-D-D	G13	18W	4000	47.76"x1.02"	4,680	100-277V	5 year	Yes
834118-35-L-F-X-D-D	G13	18W	3500	47.76"x1.02"	4,680	100-277V	5 year	Yes
834118-30-L-F-X-D-D	G13	18W	3000	47.76"x1.02"	4,680	100-277V	5 year	Yes



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For **Three Tube and One Driver** replace the “X” with “C” in the SKU number:
EXAMPLE NUMBER: 832110-50-L-F-[C]-D-D

Three Tube and One Driver SKU Numbers:

SKU Number	Base Type	Wattage	Color Temp (K)	Dimensions	Lumens (lm)	Input Voltage	Warranty	DLC® Qualified
832110-50-L-F-X-D-D	G13	10W	5000	23.62"x1.02"	3,900	100-277V	5 year	Yes
832110-40-L-F-X-D-D	G13	10W	4000	23.62"x1.02"	3,900	100-277V	5 year	Yes
832110-35-L-F-X-D-D	G13	10W	3500	23.62"x1.02"	3,900	100-277V	5 year	Yes
832110-30-L-F-X-D-D	G13	10W	3000	23.62"x1.02"	3,900	100-277V	5 year	Yes
833110-50-L-F-X-D-D	G13	10W	5000	35.71"x1.02"	3,900	100-277V	5 year	No
833110-40-L-F-X-D-D	G13	10W	4000	35.71"x1.02"	3,900	100-277V	5 year	No
833110-35-L-F-X-D-D	G13	10W	3500	35.71"x1.02"	3,900	100-277V	5 year	No
833110-30-L-F-X-D-D	G13	10W	3000	35.71"x1.02"	3,900	100-277V	5 year	No
834115-50-L-F-X-D-D	G13	15W	5000	47.76"x1.02"	5,850	100-277V	5 year	Yes
834115-40-L-F-X-D-D	G13	15W	4000	47.76"x1.02"	5,850	100-277V	5 year	Yes
834115-35-L-F-X-D-D	G13	15W	3500	47.76"x1.02"	5,850	100-277V	5 year	Yes
834115-30-L-F-X-D-D	G13	15W	3000	47.76"x1.02"	5,850	100-277V	5 year	Yes
834118-50-L-F-X-D-D	G13	18W	5000	47.76"x1.02"	7,020	100-277V	5 year	Yes
834118-40-L-F-X-D-D	G13	18W	4000	47.76"x1.02"	7,020	100-277V	5 year	Yes
834118-35-L-F-X-D-D	G13	18W	3500	47.76"x1.02"	7,020	100-277V	5 year	Yes
834118-30-L-F-X-D-D	G13	18W	3000	47.76"x1.02"	7,020	100-277V	5 year	Yes

For **Four Tube and One Driver** replace the “X” with “D” in the SKU number:
EXAMPLE NUMBER: 832110-50-L-F-[D]-D-D

Four Tube and One Driver SKU Numbers:

SKU Number	Base Type	Wattage	Color Temp (K)	Dimensions	Lumens (lm)	Input Voltage	Warranty	DLC® Qualified
832110-50-L-F-X-D-D	G13	10W	5000	23.62"x1.02"	5,200	100-277V	5 year	Yes
832110-40-L-F-X-D-D	G13	10W	4000	23.62"x1.02"	5,200	100-277V	5 year	Yes
832110-35-L-F-X-D-D	G13	10W	3500	23.62"x1.02"	5,200	100-277V	5 year	Yes
832110-30-L-F-X-D-D	G13	10W	3000	23.62"x1.02"	5,200	100-277V	5 year	Yes
833110-50-L-F-X-D-D	G13	10W	5000	35.71"x1.02"	5,200	100-277V	5 year	No
833110-40-L-F-X-D-D	G13	10W	4000	35.71"x1.02"	5,200	100-277V	5 year	No
833110-35-L-F-X-D-D	G13	10W	3500	35.71"x1.02"	5,200	100-277V	5 year	No
833110-30-L-F-X-D-D	G13	10W	3000	35.71"x1.02"	5,200	100-277V	5 year	No
834115-50-L-F-X-D-D	G13	15W	5000	47.76"x1.02"	7,800	100-277V	5 year	Yes
834115-40-L-F-X-D-D	G13	15W	4000	47.76"x1.02"	7,800	100-277V	5 year	Yes
834115-35-L-F-X-D-D	G13	15W	3500	47.76"x1.02"	7,800	100-277V	5 year	Yes
834115-30-L-F-X-D-D	G13	15W	3000	47.76"x1.02"	7,800	100-277V	5 year	Yes



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