


# Easily upgrade to LED from fluorescent.

TOPSTAR'S T8 LED Tubes with low voltage external driver, have been designed and engineered for demanding commercial applications. It can be installed into any new or existing fixture designed for similar fluorescent lamps and can reduce lighting energy use by as much as 50%. Our thermally advanced tubes come with a matched driver customized for 1-, 2-, 3- or 4- tube luminaire for easy installation. The external driver operates from 120VAC to 277VAC, and is backed by our 5-year warranty. The type C tube eliminates compatibility problems, incidental power loss, lifetime issues, and maintenance costs associated with ballasts.

- Any Pin installation
- Perfect fluorescent replacement
- High system efficacy up to 140 LPW
- Wide beam 325° light emitting area
- 3000K / 3500K / 4000K / 5000K CCT
- Extra long 50 000 hr lifetime
- UL Classified & FCC compliant

## Tube Model List

**T8**  D2C-48V-0300-UVC-B1A-DM  
D4C-48V-0300-UVC-B1A-DM

Ordering Code	System Watt(W)	Bare Lamp Watt(W)	Initial Lumen	Base	CRI	Color Temp	Rated Average life	MOL (in)	Beam Angle
* L48T8-830/835-12P-G4-EX	13	11.5	1650/1700	G13	82	3000K/3500K	50,000	48	160
L48T8-840/850-12P-G4-EX	13	11.5	1800/1800	G13	82	4000K/5000K	50,000	48	160
* L48T8-830/835-14P-G4-EX	16	14	2000/2000	G13	82	3000K/3500K	50,000	48	160
L48T8-840/850-14P-G4-EX	16	14	2050/2050	G13	82	4000K/5000K	50,000	48	160

\* No regular stock in US. Available by Special Order only.

## Kit Model List

Kit Model **	Lamp Model	Qty.	Driver Model
L48T8-XYX-12P-G4-EX-B2	L48T8-XYX-12P-G4-EX	2	D2C-48V-0300-UVC-B1A-DM
L48T8-XYX-12P-G4-EX-B3		3	D4C-48V-0300-UVC-B1A-DM
L48T8-XYX-12P-G4-EX-B4		4	D4C-48V-0300-UVC-B1A-DM
L48T8-XYX-14P-G4-EX-B2	L48T8-XYX-14P-G4-EX	2	D2C-48V-0300-UVC-B1A-DM
L48T8-XYX-14P-G4-EX-B3		3	D4C-48V-0300-UVC-B1A-DM
L48T8-XYX-14P-G4-EX-B4		4	D4C-48V-0300-UVC-B1A-DM

\*\* Only tubes with specified drivers are listed in DLC website, shown as kit model numbers above.

## INSTALLATION GUIDE:

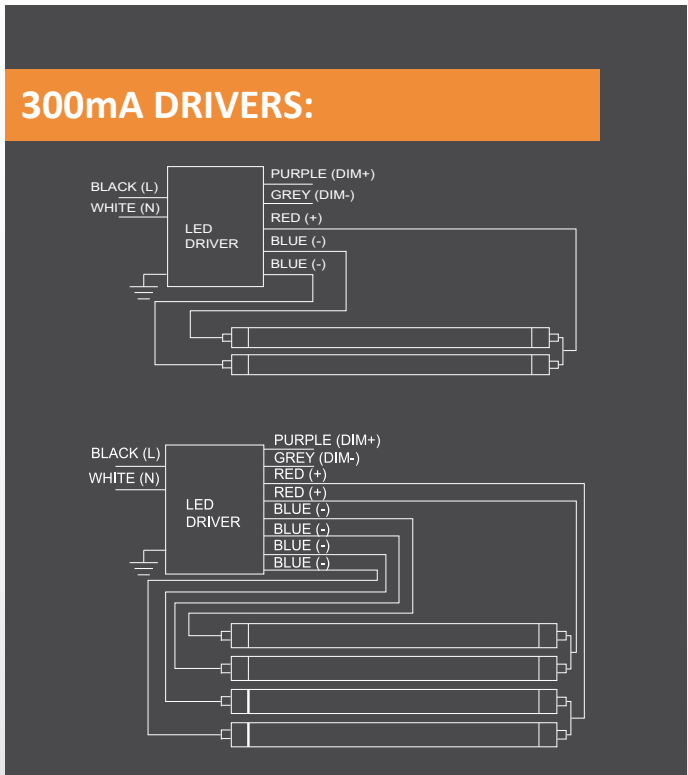
- 1) Study all WARNINGS before installations
- 2) Make sure POWER IS TURNED OFF at the source to the location at which you are installing the products.
- 3) Remove lens, cover and fluorescent tubes. Cut away all wires connecting the ballast and remove the ballast if necessary.
- 4) Attach the LED driver to the fixture using existing ballast mounting holes and screws if present. If necessary, use self-tapping screws to create new holes and mount the LED driver.
- 5) Follow wiring diagrams for number of lamps.
- 6) For 0-10V dimming circuits, connect the incoming grey and purple wires to the LED driver's grey and purple wires using wire nuts (not provided). If no 0-10V dimming circuit is present, cap off the grey and purple wires.
- 7) Visibly affix the "Modification Sticker" to the fixture and reinstall housing cover and lens if applicable.
- 8) Return power back to the source and installation is complete.

**WARNING** - Risk of fire or electric shock. LED Retrofit Kit installation requires knowledge of luminaire electrical systems. Installation should be performed only by a qualified electrician in accordance with the National Electrical Code and relevant local code.

**WARNING** - Risk of fire or electric shock. Install this kit only in the luminaires that have the construction features and dimensions shown in the photographs and/or drawings.

**WARNING** - To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.

**WARNING** - Risk of fire or electric shock. Luminaire wiring and electrical parts may be damaged when drilling for installation of LED retrofit kit. Check for enclosed wiring and components.



## Driver Model

# D2C-48V-0300-UVC-B1A-DM

## Specifications

Output Current (mA)	600mA+/-5% (300mA / Channel x 2 Channel)	
Output Voltage (Vdc)	30-48Vdc	
Output Power (W) Max	30W (15W / Channel x 2 Channel)	
Input Voltage (Vac)	120V(108-132V)	277V(249-305V)
Input Current (A) Max	≤0.31A	≤0.14A
Frequency (Hz)	50/60Hz	
Power Factor @ Full load	>0.98	>0.95
THD @ At least 90% load	<20%	<20%
Efficiency @ Full load	≥86%	≥87%
0-10V Dimming	10%-100%	
Start Time Max (s)	1s @ Full load	
Inrush Current (A)	Max 30A	
Environment Protection Rating	UL Damp and Dry Locations	
Operating Temperature	-30°C~55°C	
Storage Temperature	-40°C~55°C	

## Physical Parameters

Dimensions (L × W × H)	9.5" × 1.3" × 1.1" / 241mm × 33mm × 29mm
Input Wire(18AWG,105°C Single)	1x Black (L) = 12" / 300mm; 1x White (N) = 12" / 300mm
Output Wire(18AWG,105°C Single)	2x Blue (-) = 12" / 300mm; 1x Red (+) = 12" / 300mm
Dim Wire(18AWG,105°C Single)	1x Violet = 12" / 300mm; 1x Gray = 12" / 300mm
Mounting (M)	8.9" / 226mm
Weight:	1.0 lb / 470g

**Driver Model**

**D4C-48V-0300-UVC-B1A-DM**

**Specifications**

Output Current (mA)	1200mA+/-5% (300mA / Channel x 4 Channel)	
Output Voltage (Vdc)	30-48Vdc	
Output Power (W) Max	60W (15W / Channel x 4 Channel)	
Input Voltage (Vac)	120V(108-132V)	277V(249-305V)
Input Current (A) Max	≤0.64A	≤0.26A
Frequency (Hz)	50/60Hz	
Power Factor @ Full load	>0.98	>0.96
THD @ At least 90% load	<20%	<20%
Efficiency @ Full load	≥86%	≥88%
0-10V Dimming	10%-100%	
Start Time Max (s)	1s @ Full load	
Inrush Current (A)	Max 30A	
Environment Protection Rating	UL Damp and Dry Locations	
Operating Temperature	-30°C~55°C	
Storage Temperature	-40°C~55°C	

**Physical Parameters**

Dimensions (L × W × H)	9.5" × 1.3" × 1.1" / 241mm × 33mm × 29mm
Input Wire(18AWG,105°C Single)	1x Black (L) = 12" / 300mm; 1x White (N) = 12" / 300mm
Output Wire(18AWG,105°C Single)	4x Blue (-) = 12" / 300mm; 2x Red (+) = 12" / 300mm
Dim Wire(18AWG,105°C Single)	1x Violet = 12" / 300mm; 1x Gray = 12" / 300mm
Mounting (M)	8.9" / 226mm
Weight:	1.0 lb / 470g