

## DS12W, 15W, 20W LTLI7-0000 Series Light Tune™ Dual Channel LED Driver



Efficiency	>86%
Power Factor	>0.90
Case TC	90°C Max.
Protection	Input / Output
Storage	-30°C / +90°C
Humidity	95% RH Max.
IP Rating	IP60
Class	Class 2 Power Supply
Dimming	0-10V, PWM

**RoHS**

**FC**  
Part 15 Class B  
Compliant

**CE**

**TITLE 24**  
COMPLIANT

**5**  
**7\*10\***  
YEAR WARRANTY

### FEATURES

- Dual channel output for color mixing applications
- 0 -10V or PWM dimmable
- Universal input 100V - 277V AC 50/60Hz
- Smooth, flicker free dimming 100% - 0.1%
- Title 24/JA10 standard, AAA rating
- Class 2 power supply
- Auto-reset; short circuit, overload and thermal protection
- Efficient, high power factor >0.90
- Aluminum casing for optimal heat dissipation
- Small form factor

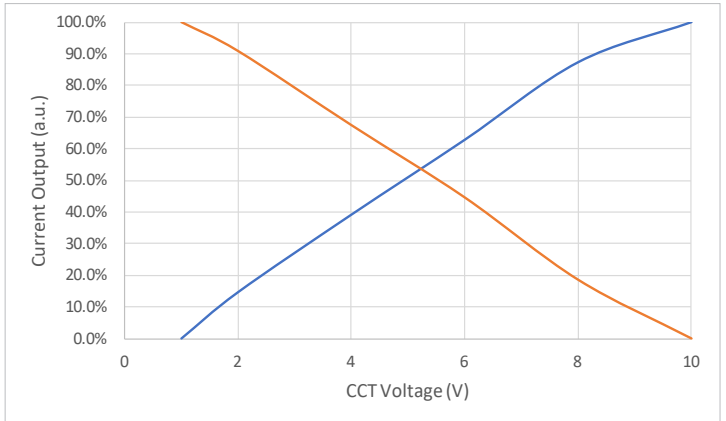
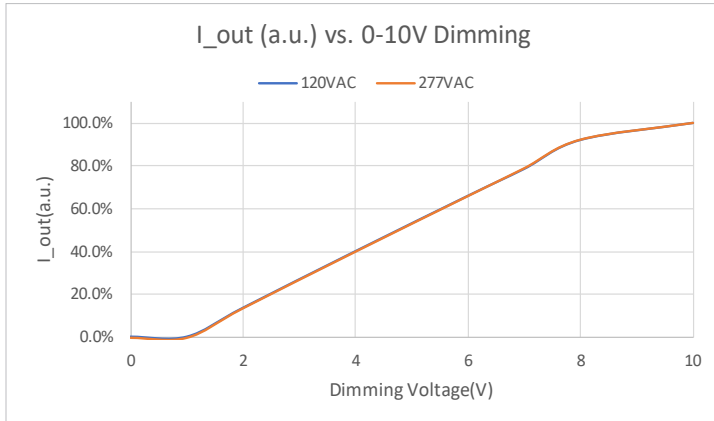
### MODEL KEY

DS	15W	350C	2542	LT	LI20	-0000
Input Voltage DS = 120-277VAC	Wattage	350C Constant Current	Output Voltage Range 25V-42V DC LED	2 Channel Output for color tuning LEDs	Form Factor	Manufacturer Code

### MODEL SPECIFICATIONS

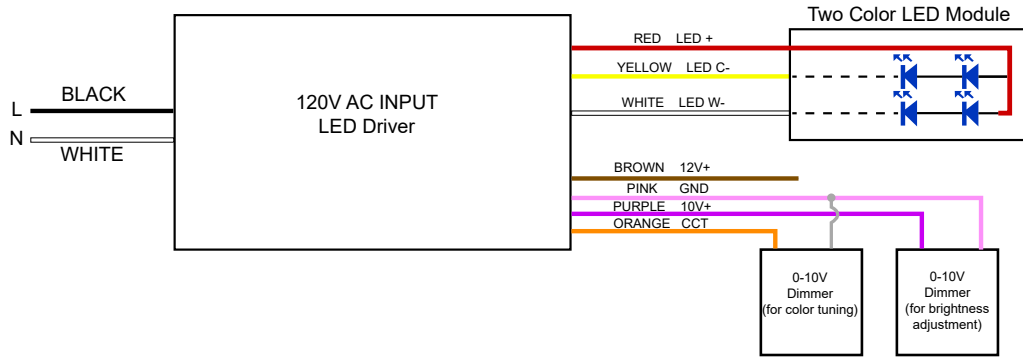
Model Number	Input Voltage	Wattage	Output Channels	Constant Current Output	Load	Dimming
DS12W300C2040LTLI7-0000	100 - 277V AC 0.15A, 50/60Hz	12W	2 Channels for Color Mixing	300mA	20V - 40V DC LED	0-10V, PWM
DS15W350C2542LTLI7-0000		15W		350mA	25V - 42V DC LED	0-10V, PWM
DS20W500C2040LTLI7-0000		20W		500mA	20V - 40V DC LED	0-10V, PWM

### DIMMING CURVES

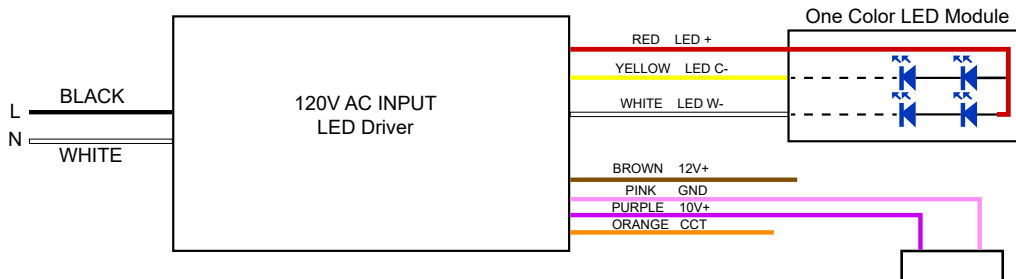


### WIRING DIAGRAM

2 Channel LED with 0-10V Tuning and 0-10V Dimming



Single Channel LED with 0-10V Dimming



## ELECTRICAL SPECIFICATIONS

<b>Output</b>	DC Voltage Range	25 - 42V DC
	Constant Current	350mA
	Rated Power	15W
	Ripple Current < 120Hz	<2%
	Current Tolerance	±5%
	Line Regulation	±1.0%
	Load Regulation	±5.0%
	Setup Time	1s / 277VAC at full load
<b>Input</b>	Voltage Range	108~305VAC
	Frequency Range	47~63Hz
	Power Factor (typ.)	PF>0.98/120VAC.PF>0.92/277VAC at full load
	Total Harmonic Distortion	THD<20% when output loading ≤75% at 277VAC input
	Efficiency (typ.)	>80%
	AC Current (typ.)	0.3A/120VAC, 0.14A/277VAC
	Inrush Current (typ.)	Cold Start 6.5A
	Leakage Current	<0.75mA/277AC
<b>Protection</b>	Over Current	Current limiting, recovers automatically after fault condition is removed
	Over Load	Power limiting, recovers automatically after fault condition is removed
	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed
	Over Temperature	Protection type: Shut down o/p voltage.re-power on to recover
<b>Environment</b>	Working Temp.	-40~+60°C
	Max. Case Temp. (Tc)	90°C
	Storage Temp.	-40~+80°C
	Humidity	10~95% RH
	Temp. Coefficient	±0.03%/°C(0~50°C)
	Location	Dry and Damp Location
<b>Safety &amp; EMC</b>	Safety Standards	UL8750
	Withstands Voltage	2500V AC
	Isolation Resistance	10M
	EMC Emission	FCC PART 15B
	Surge	1KV DM, 2KV CM
<b>Other</b>	Rated Lifetime	50,000Hrs

**COMPATIBLE COB**

Model	Size	Channels	Tuneable CCT	CRI	R9	Lumens
LTCOBI161605727	16 x 16mm	Dual	2200K - 6600K CCT	90+	60+	1080 lm

**MECHANICAL SPECS**

FORM FACTOR	DIMENSIONS
L20	4.1”(104.4mm) x 1.3”(33.7mm) x 0.94”(24mm)

