

ATX LED

100% DC low voltage

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P02016R LED Fixtures Low Voltage 6 inch, dimmable Direct Current Controlled

P02016R series, CC

ETL 5005242 / UL 1598

Bright LEDs, Cool Operation



Product Description - low profile long life LED fixture

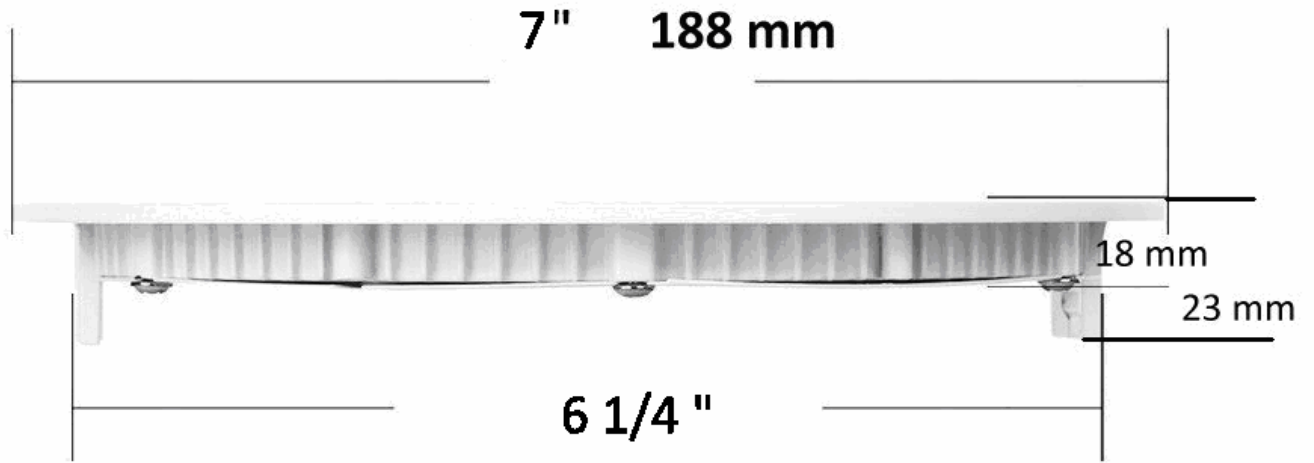
The P02016R series of LED fixtures are **ETL listed** and IC rated for direct contact with insulation – recognizing it's cool operating temperatures and distributed heat (no hot spots). **Closest Rated** under NEC codes. **JA8 / Title 24** listed.

Technical specifications

Wattage	6 watts operating
Operating current	0 to 1000 mA total of current in both channels, can mix for color control
Dimming Range	0 to 100%, flicker free, no artifacts
Lumens	750
Color Temperature, CRI	tunable white. CRI 90
Operating Voltage	5.0 to 6.0 volts
Recommended wiring	Series, up to 8 fixtures in series sharing one driver
Constant Voltage	Not Recommended
Operating Temperature	Ceiling mount, -20 to 50 Deg C non condensing
IP Rating	Suitable for Damp environments
Mounting	Use HALO 6 inch rough in trays
LM-80 tested	10,000 hours
LED type	2835 long life

6 inch style

Panel Style LED Wafers – Low Voltage Dimmable



HALO™ Rough in



Color Temperature options

Available in 6 different color temperatures, these fixtures can be operated as a fixed color, or tunable white fixture. Any 1000 mA current source can be used. Up to 5 fixtures can be wired in series to share one driver. That driver can be located up to 150 ft from the LEDs – since constant current eliminates the concerns about voltage drop.

This 13 watt device can be installed as either tunable white or fixed color. Connecting both inputs in parallel will generate the 3850K color. .

Model	2700	3000	3500	3850	4000	5000
CCT	X			X		X
Fixed		*	*		*	

X= Stock, * = on request

Ordering part numbers

Model	Voltage	Current	CCT	CRI	Lumens	Note
P02016R-1000mA-2700K	5.0-5.5	0-1000mA	2700K	90	1500	warm side of 27/50K
P02016R-1000mA-3850K	5.0-5.5	0-1000mA	3850K	90	1500	27/50K combined
P02016R-1000mA-5000K	5.0-5.5	0-1000mA	5000K	90	1500	cool side of 27/50K
P02016R-1000mA-27/50K	5.0-5.5	0-1000mA	Tunable 2700 to 5000	90	1500	Tunable White

660 mA operation

This LED can be installed for 660 mA operation for use with 660 mA drivers. The total power is 8 watts at 3850 CCT. The voltage increases from 5.5v to 11v in this method.

Wiring examples

Fixed Color Temperature Wiring

One connector per LED – OJ 606 model, AWG 18 or 20

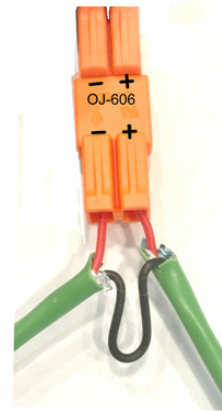
Note the series wiring method

LED series Wiring

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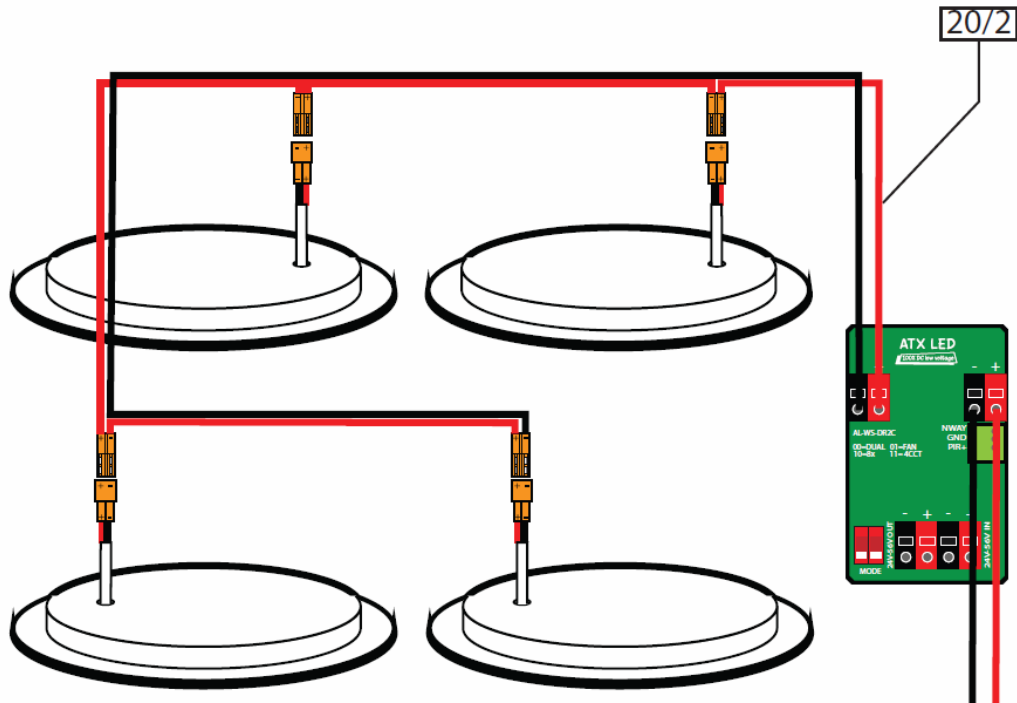


OJ-606 Connector

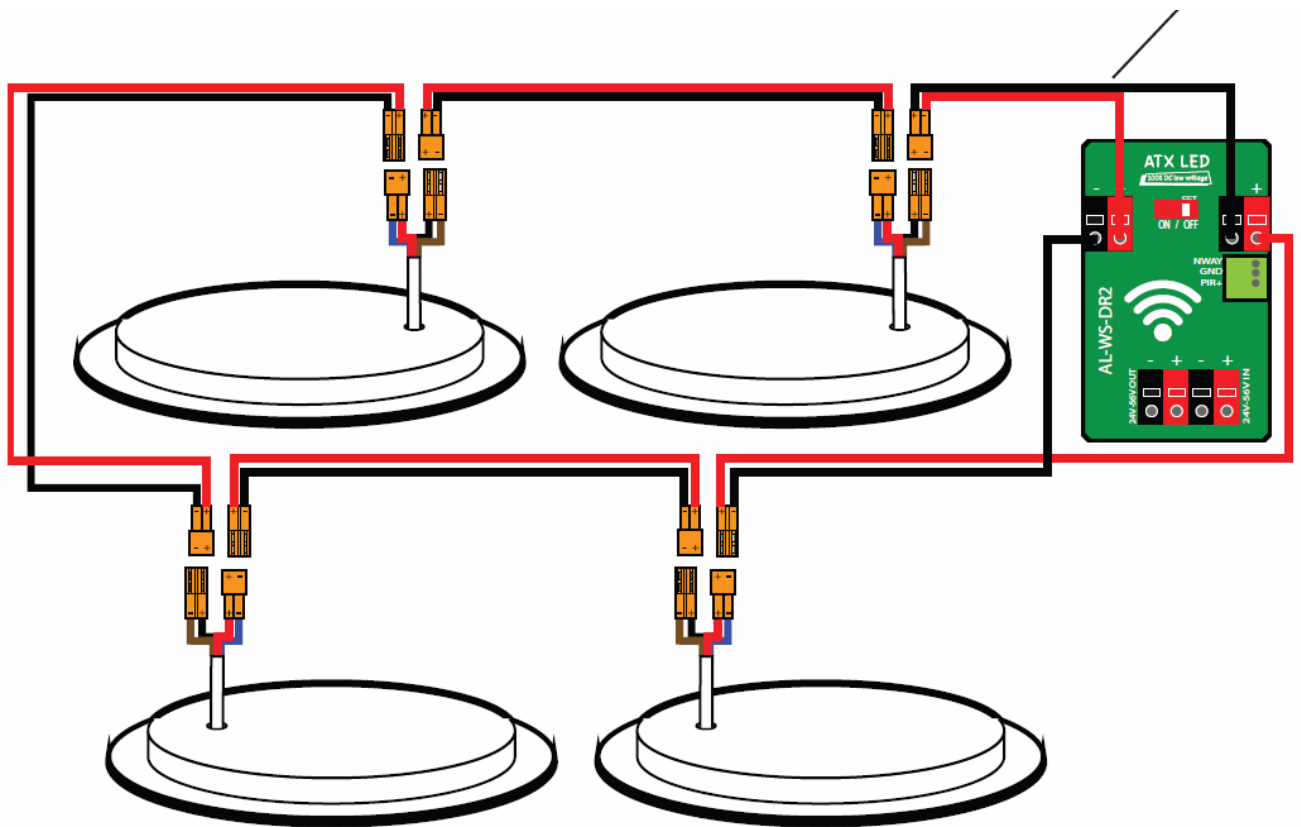
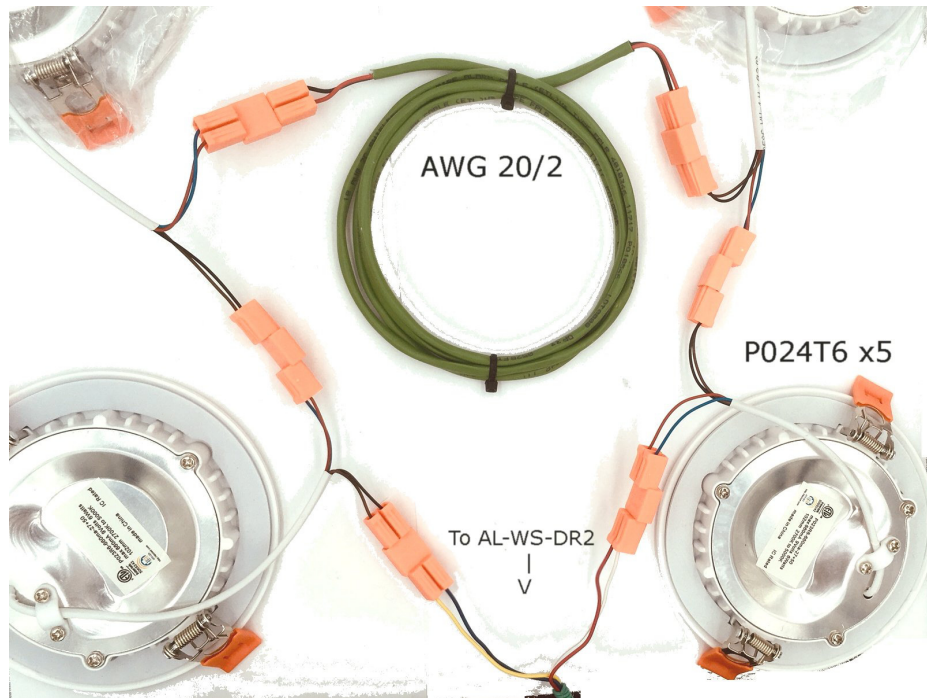


Right to DR2 switch
Left to next LED

Series Wiring



Tunable White LED wiring with just one pair of awg20



Recommended DC Drivers with dimming*

N = # of LEDs

DC drivers *	# of bulbs Fixed color	# of Bulbs Tunable White	WiFi	DALI
AL-WS-DR1-1000	8			
AL-WS-DR2	8**			X
AL-WS-DR2W	8**		X	
AL-WS-DR2-1000	16	8		X
LDD-1500H	8			
LDD-1500HDA	8			X

*51 volt DC input

Examples of AC Drivers with Dimming

N = # of LEDs

AC drivers from 120 / 240 vac to DC currents	Fixed Color	Tunable White	0-10v	DALI	DMX
SMT-086-0700CM	8			X	
SR-2305-75CCT	8				
SR-2309-75CCT		8		X	
WP-80-40A-2AM	8	8	X		
DMX-50-500-1750	12				X

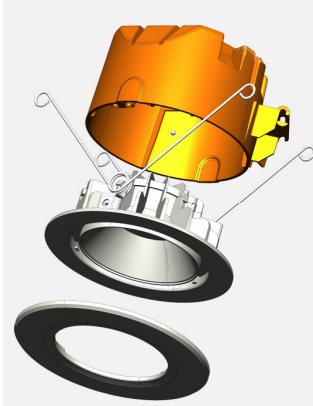
Hundreds of models of AC to DC constant current drivers exist.

Other LED Products from ATX LED

Model	Hole in Ceiling mm	Drill Size Inch	Finished Outside Diameter mm	Watts	Volts	Lm/W	mA	Wiring*
P023R6-660	102	4"	120	6	9	90	660	S
P023R6-48v6w	102	4"	120	6	48	90	120	P
P02016R-1000	169	6 5/8"	188	12	9	100	1000	S
P02016R-48v12W	169	6 5/8"	120	12	48	90	240	P
DL-98B	70	2 3/4"	88	6	9	130	600	S
DL-120	102	4	120	6	9	130	660	S
MS31008	70	2 3/4"	90	6	9	130	660	S
E26-A60	Bulb	-	-	6	9	80	660	S
E26-A60-48v6w	Bulb	-	-	6	48	80	120	P
E12-C35	Bulb	-	-	6	9	80	660	S
E12-C35-48v6w	Bulb	-	-	6	48	80	120	P
P023S2	Strip	3/4	15 ft max	2/ft	45	120	660	S
P023S4	Strip	3/4	7.5 ft max	4/ft	45	120	660	S
P023S8	Strip	3/4	7.5ft max	8/ft	45	120	1000	S

*S is serial

*P is parallel



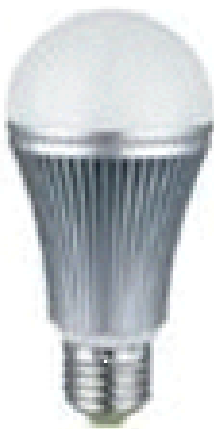
DL-120



DL-100



RL-E12



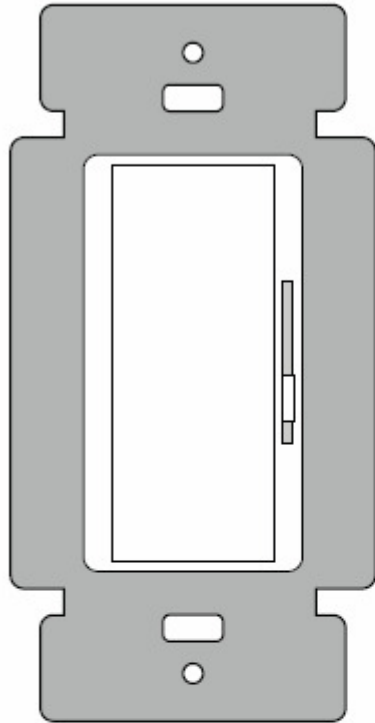
ATX-E26



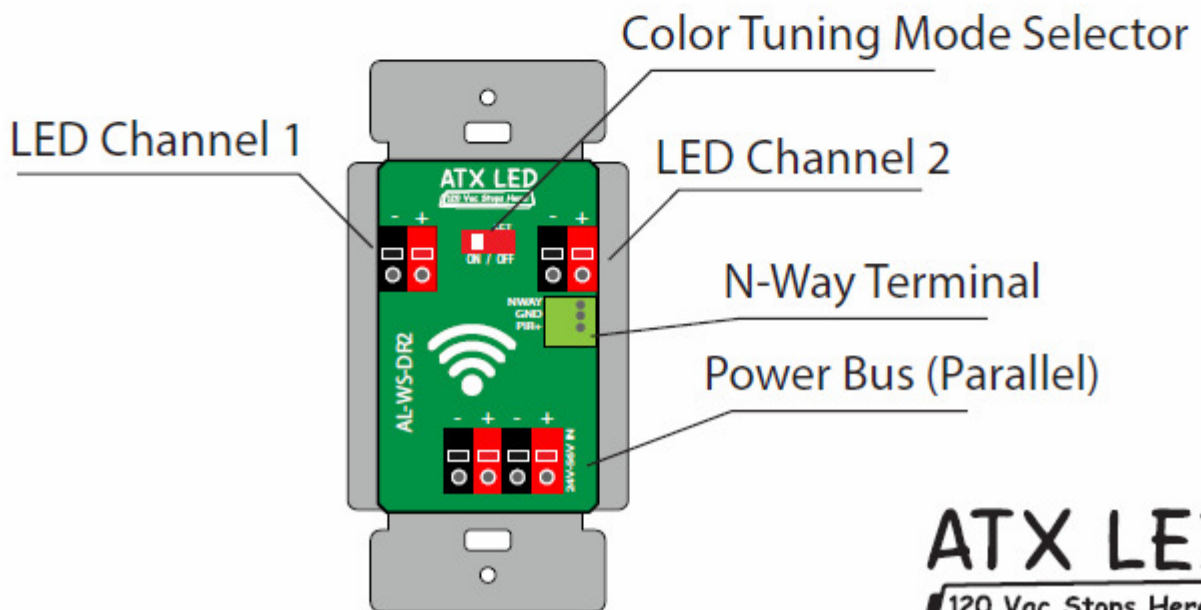
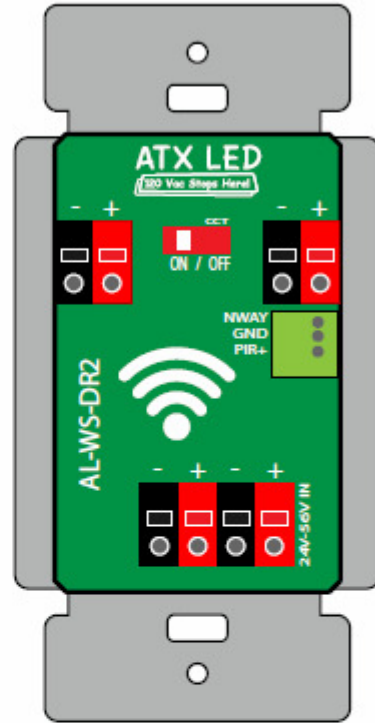
RL-E26

Meet the DR2

The DR2 is the heart of the entire system. From the front it looks like a typical style wall switch with a slide dimmer. This is where the driver for the LEDs is located. The DR2 uses current control technology to provide perfect dimming to each of its corresponding LEDs. There are several different types of DR2 available, depending on application.



Front



ATX LED
120 Vac Stops Here!