

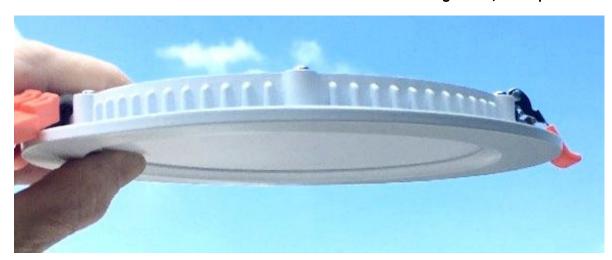
P023R11 LED Fixtures Low Voltage 1440 mA, dimmable Direct Current Controlled

ATX LED Consultants Inc 1108 Lavaca St – STE 110-489 Austin Tx, 78701 512 377 6052 http://atx-led.com

P023R11 series, CC

ETL 5005242 / UL 1598

Bright LEDs, Cool Operation



Product Description - low profile long life LED fixture

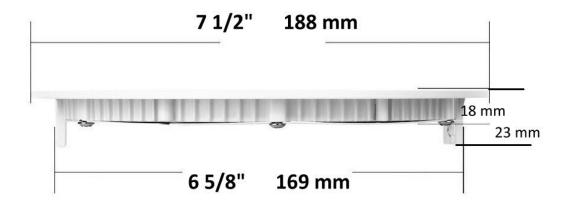
The P023R series of LED fixtures are **ETL listed** and IC rated for direct contact with insulation – recognizing it's cool operating temperatures and distributed heat (no hot spots). **Closet Rated** under NEC codes. **JA8 / Title 24** listed.

Technical specifications

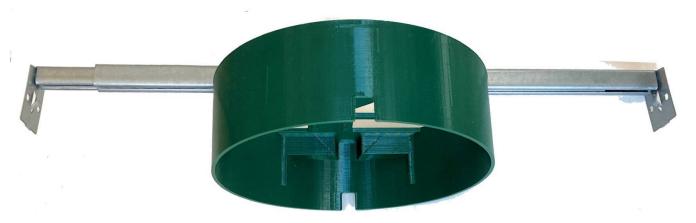
Wattage	13 watts operating			
	0 to 1440 mA			
Operating current	total of current in both channels, can mix for color control			
Dimming Range	0 to 100%, flicker free, no artifacts			
Lumens	1500			
Color Temperature, CRI	3 fixed options available plus tunable white. CRI 80 and 90 options			
Operating Voltage	7.5 to 9.0 volts			
Recommended wiring	Series, 4 or 5 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			
IC Rated	Yes, see AL-CBOX6 Fire Rated Rough in box			
LM-80 tested	10,000 hours			
LED type	2835 long life			
Closet Rated	Suitable for use within Closet storage spaces when installed per NEC requirements. See https://atxled.com/Closets for more info			

6 inch style

Panel Style LED Wafers – Low Voltage Dimmable



AL-CBOX6 ceiling mount Options



AL-CBOX6 mounting hanger bar

16 to 24 inch joist spacing
Supports up to 20 lbs
Flat or vertical truss attachment
See AL-CBOX6.pdf

Color Temperature options

Available in 6 different color temperatures, these fixtures can be operated as a fixed color, or tunable white fixture. Any 1440 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
ССТ	Х			Х		Х
Fixed		*	*		*	

X= Stock, * = on request

Ordering part numbers

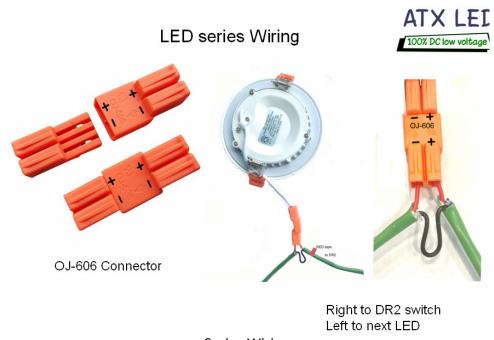
Model	Voltage	Current	ССТ	CRI	Lumens	Note
P023R11-1440mA-2700K	7.5-9	0-1440mA	2700K	90	1500	warm side of 27/50K
P023R11-1440mA-3850K	7.5-9	0-1440mA	3850K	90	1500	27/50K combined
P023R11-1440mA-5000K	7.5-9	0-1440mA	5000K	90	1500	cool side of 27/50K
P023R11-1440mA-27/50K	7.5-9	0-1440mA	Tunable 2700 to 5000	90	1500	Tunable White

720 mA operation

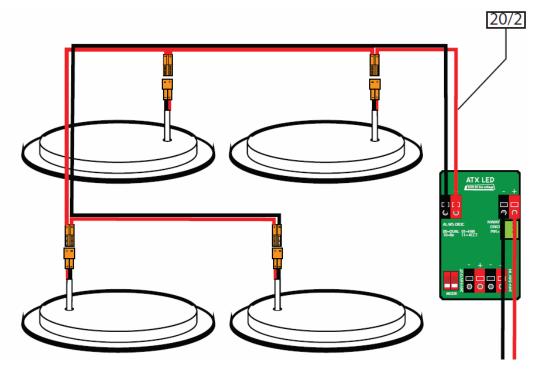
This 13 watt LED can be installed for 720 mA operation for use with 660 or 720 mA drivers. The total power is 13 watts at 3850 CCT. The voltage increases from 9v to 18v in this method.

Wiring examples

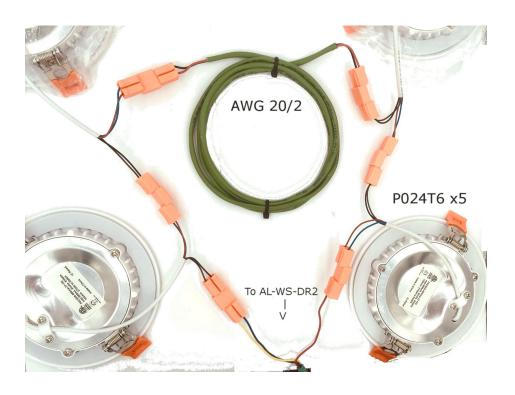
Fixed Color Temperature Wiring One connector per LED – OJ 606 model, AWG 18 or 20 Note the series wiring method

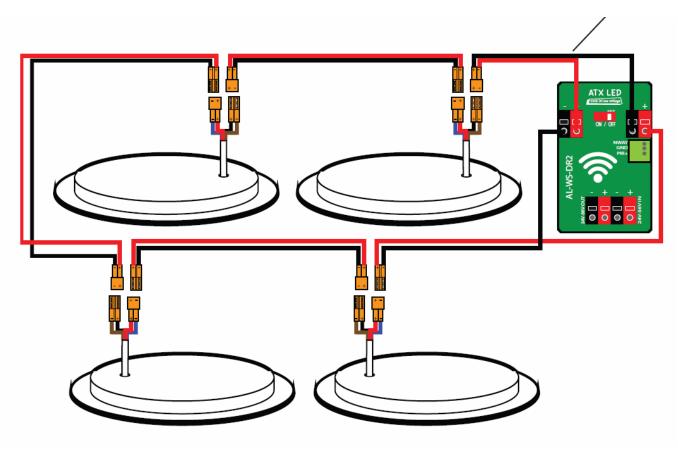


Series Wiring



Tunable White LED wiring with just one pair of awg20





Recommended DC Drivers with dimming*

N = # of LEDs

DC drivers *	# of bulbs	# of Bulbs	WiFi	DALI
	Fixed color	Tunable White		
AL-WS-DR1-1440	5			
AL-WS-DR2	5**			Х
AL-WS-DR2W	5**		Х	
AL-WS-DR2-1440	10	5		X
LDD-1500H	5			
LDD-1500HDA	5			Х

^{*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	9			Х	
SR-2309-75CCT		5		x	
WP-80-40A-2AM	8	4	х		
DMX-50-500-1750	6				x

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

Other LED Products from ATX LED

 	Hole in	Drill	Finished		 			
	Ceiling	Size	Outside	; ! !				; • • • • • • • • • • • • • • • • • • •
Model	mm		Diameter	Watts	Volts	Lm/W	mA	Wiring*
; !	; ; !	Inch	mm	! !				; ;
P023R6-660	102	4"	120	6	9	90	660	S
P023R6-48v6w	102	4"	120	6	48	90	120	Р
P023R11-1440	169	6 5/8"	188	12	9	100	1440	S
P023R11-48v12W	169	6 5/8"	120	12	48	90	240	Р
DL-98B	70	2 ¾"	88	6	9	130	600	S
DL-120	102	4	120	6	9	130	660	S
MS31008	70	2 ¾"	90	6	9	130	660	S
E26-A60	Bulb	-	-	6	9	80	660	S
E26-A60-48v6w	Bulb	-	-	6	48	80	120	Р
E12-C35	Bulb	-	-	6	9	80	660	S
E12-C35-48v6w	Bulb	-	-	6	48	80	120	Р
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	1440	S

^{*}S is serial

^{*}P is parallel





DL-100



RL-E26



RL-E12

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.

