

P023R6-S slim 5 Inch
(aka P023R6-MR)

Low Voltage, dimmable
Surface Mounted LED

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

P023R6 series

ETL 5005242 ( UL 1598 std)

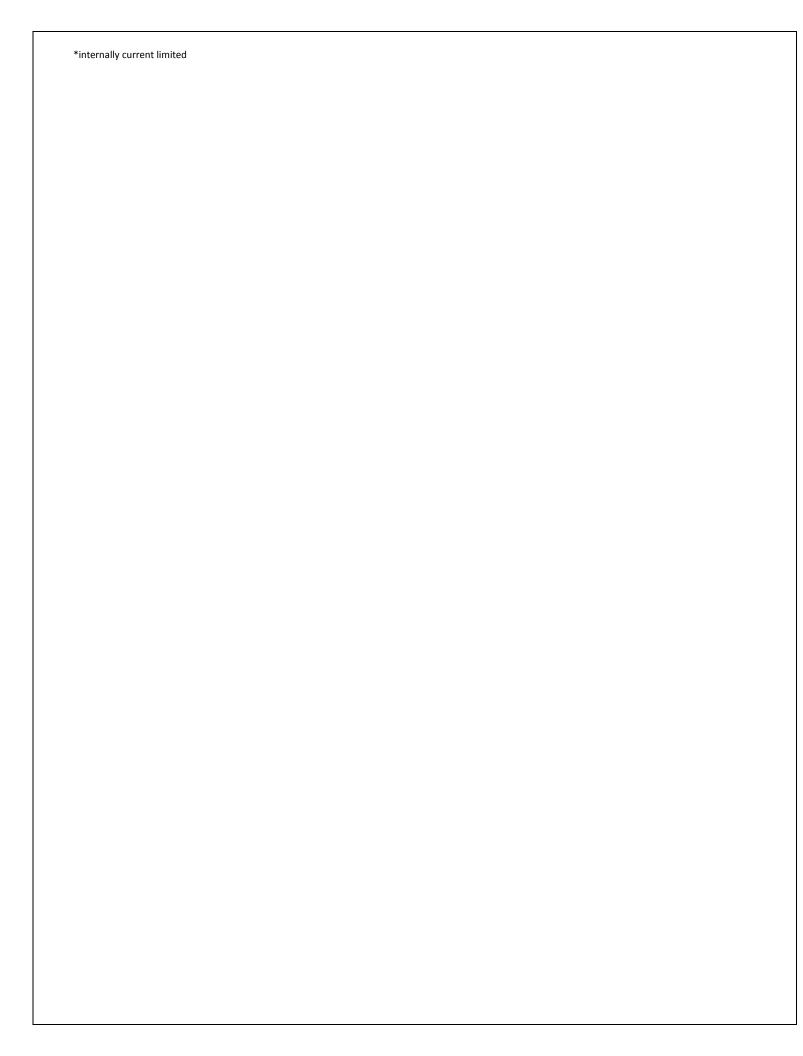
**Bright LEDs, Cool Operation** 



## Product Description - surface mount driverless 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.

Model	Voltage	Current	CCT	CRI	Lumens	Watts
P023R6-S-mA-XX00K fixed or tunable white	7.5-8	0-1000mA	2700K 3000K 3500K 4000K 5000K	90+	740 @ 660mA	5.3w @660mA 8w @1000 mA
P023R6-S-48v7w-XX00K	38-48v	145 mA*	3000K 3500K 4000K	90+	900	6.5w @51v
P023R6-S-51v6w-XX00K	40-54v	115 mA*	3000K 3500K 4000K	90+	740	9.2w @51v



## **Technical specifications**

Case Color	Pure White – other colors available				
Dimming Range	0 to 100%, flicker free, no artifacts				
CRI	CRI 90+				
Lm/watt	Up to 120				
Color Temperature	6 fixed optio	ns available plus tunable w	hite		
Model	P023R6-S-mA	P023R6-S-mA P023R6-S-51v <b>6w</b> PC			
Operating mode	Current Mode	Voltage Mode	Voltage Mode		
Operating Voltage	7.5 to 8.3 volts	38 to 54 volts	38 to 48 volts		
Internal Current Limiter	5.3 w @ 660 mA 8.3 w @ 1000 mA	115 mA	145 mA		
Wattage	0-1000 mA	6 w @ 51v	7.5 w @ 48v		
Operating current		0 to 115 mA	0 to 145mA		
Wiring Method	Series	Parallel			
Dimming method	Signature Perfect	Value without dimmer or any ATX dimmer 5% to 100%			
Color Temp	CCT 2700-5000K	Fixed, see options			
Operating Temperature	Ceiling mount, -20 to 50 Deg C non condensing				
IP Rating	Suitable for Damp environments				
IC Rated	Surface Mount				
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 <a href="https://atxled.com/Closets">https://atxled.com/Closets</a> for more info				
Motion Sensor	See P023R6-M for motion sensing				

## Light engine - 120 LED chips for the most light



shown without diffuser





## **Snap In Surface Mounting**

5 Inch diameter

13/16 below Surface

5/8 above Surface

125 mm diameter

20.5 + 16mm total height



### **Color Temperature options**



## Optional Time of Day lighting rhythm

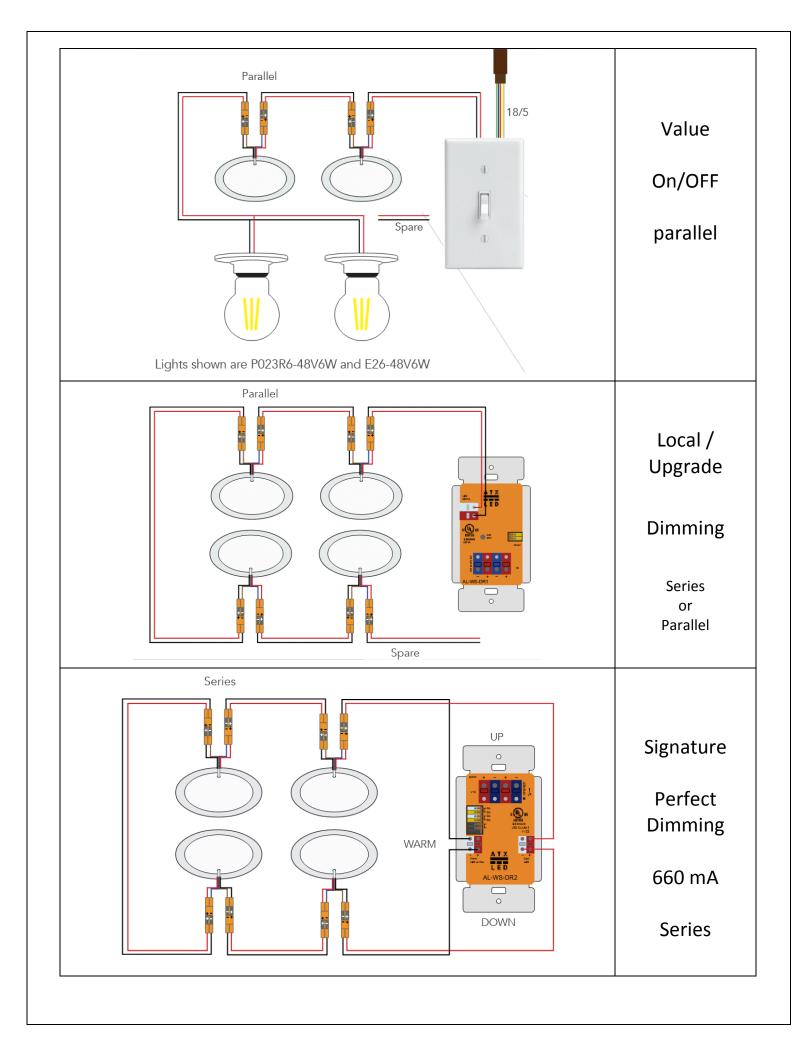
Available in 6 different color temperatures, these fixtures can be operated as a fixed color, or tunable white fixture. Any 660 mA current source can be used. Up to 5 fixtures can be wired in series to share one driver. That driver can be located up to 150 ft from the LEDs – since constant current eliminates the concerns about voltage drop. This 6 watt device can be installed as either tunable white or fixed color. Connecting both inputs in parallel will generate the 3850K color.

X = Stock, \* = on request,  $X^2 = wiring option of CCT$ 

Model	2700	3000	3500	3850	4000	5000
ССТ	Х					> X
Fixed	X²	Х	Х	X²	*	X²

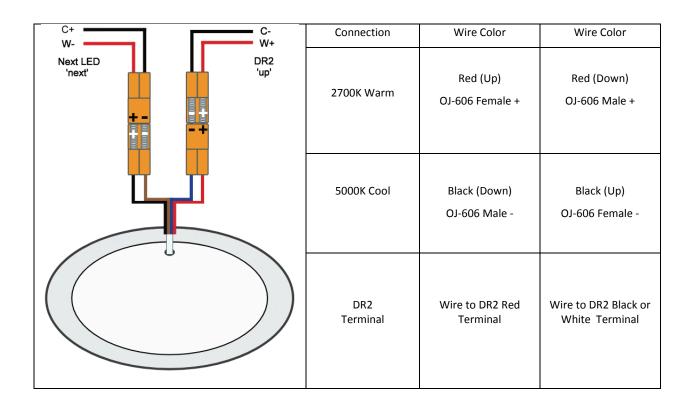
### 360 mA operation

The CCT model can be installed for 360 mA operation for use with 360 or 300 mA drivers. The total power is 6 watts at 3850 CCT. The voltage increases from 8v to 16v in this method.



## Tunable White (CCT) Wiring detail

# Tunable White series LED wiring is implemented with just one pair of wire OJ-606 type connector AWG 18 or 20 2 pin



## Recommended DC 660 mA Drivers with dimming\*

#### N = # of P023R6-S

DC drivers *	Fixed Color	Tunable White	WiFi	DALI
AL-WS-DR1	5			
AL-WS-DR1P/D	5			
AL-WS-DR2	10	5		Yes
AL-WS-DR2C	10	5		
AL-WS-DR2W	10	5	Yes	
LDD-600H	5			
LDD-600HDA	5			Yes

\*51 volt DC input to the AL-WS-DRx

## **Examples of AC Drivers with Dimming**

### N = # of current mode LEDs

AC drivers from 120 / 240 vac to DC currents	Fixed Color	Tunable White	0-10v	DALI	DMX
SRP-2305-75	10			Х	
SRP-2309-75CCT		5		Х	
WP-80-40A-2AM	8	4	Х		
DP4-EC / DP5-E	16	5			х

## **Examples of AC Drivers without Dimming**

### N = # of 51v6w LEDs

AC drivers from 120 / 240 vac to DC currents	Fixed Color	Tunable White	0-10v	DALI	DMX
AL-PS-51v96w	16				

## Other LED Products from ATX LED

