

# ATX LED

100% DC low voltage

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## P02106 LED Fixtures Low Voltage 6 inch, dimmable Direct Current Controlled

P02106 series, CC

ETL 5005242 / UL 1598

Bright LEDs, Cool Operation



### Product Description - low profile long life LED fixture

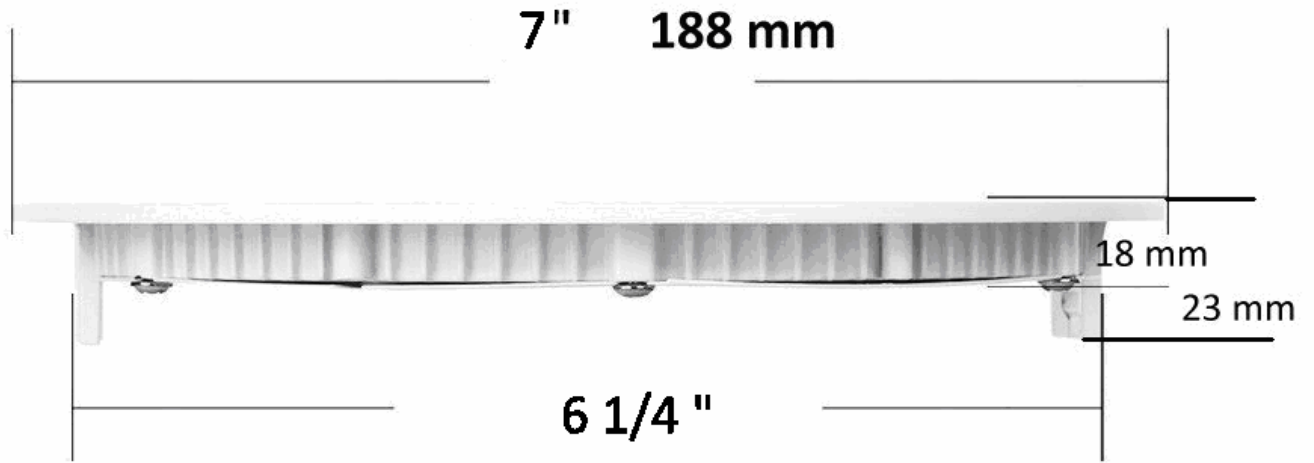
The P02106 series of LED fixtures are **ETL listed** and IC rated for direct contact with insulation – recognizing it's cool operating temperatures and distributed heat ( no hot spots). **Closet Rated** under NEC codes. **JA8 / Title 24** listed.

### Technical specifications

Wattage	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.

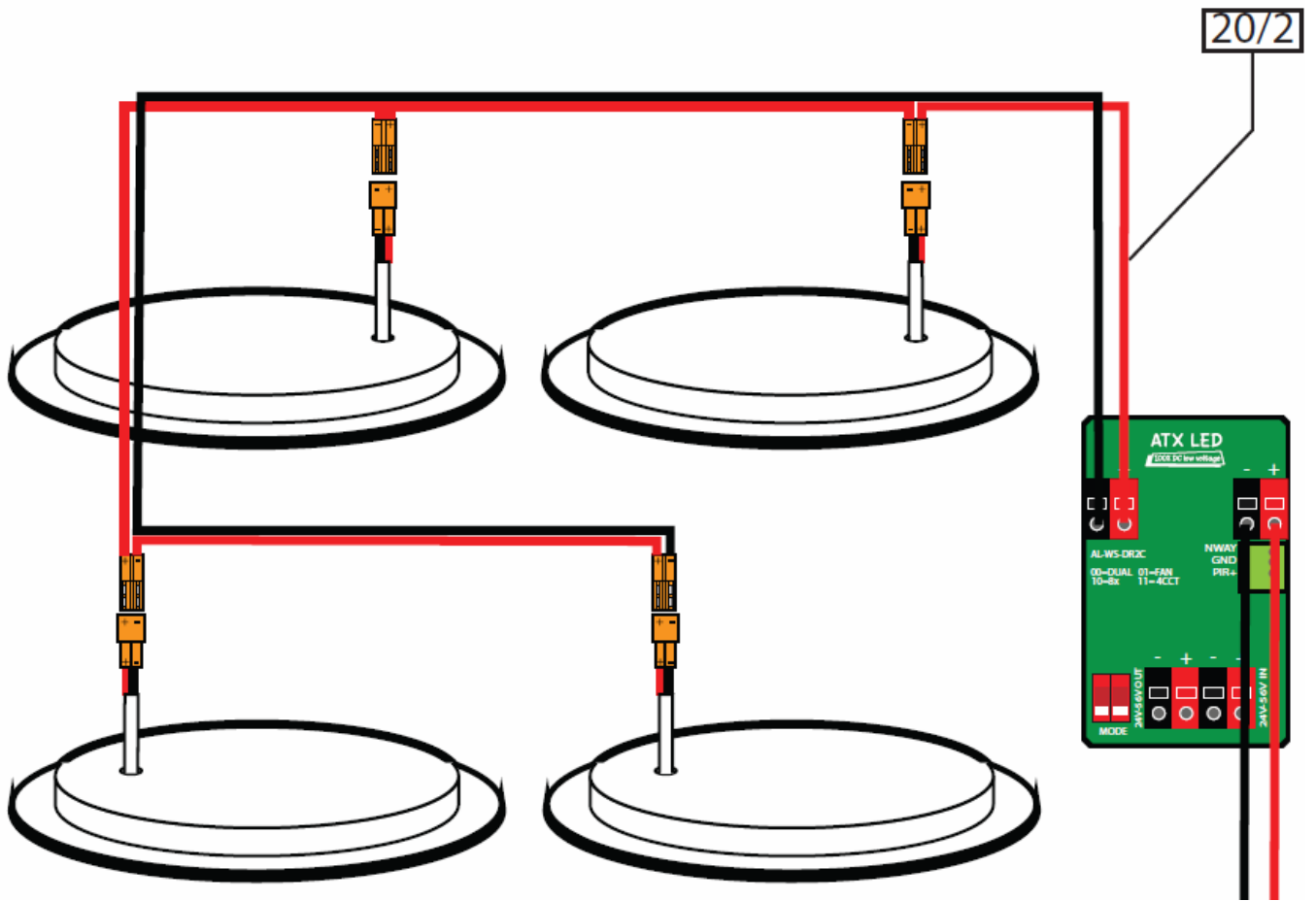
Model	2700	3000	3500	3850	4000	5000
CCT	X			X		X
Fixed		*	*		*	

X= Stock, \* = on request

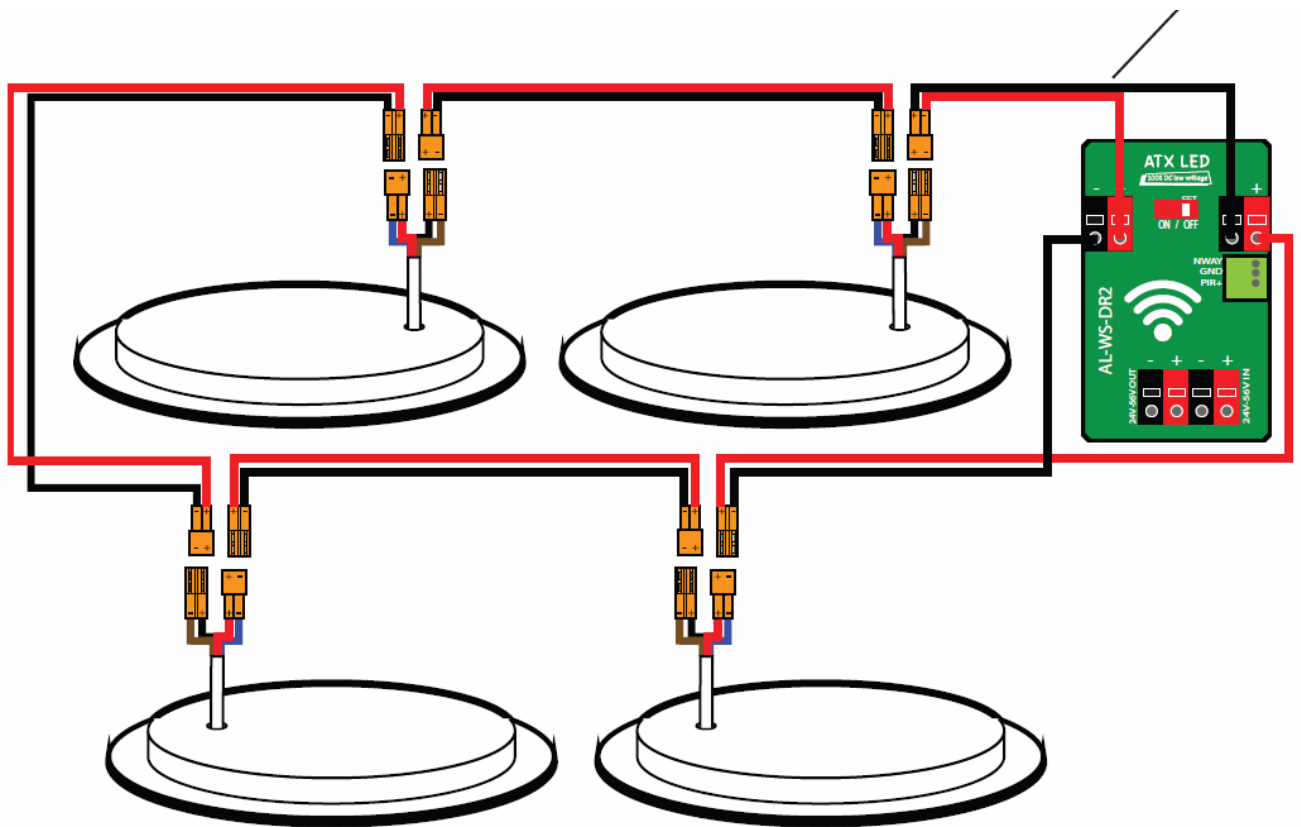
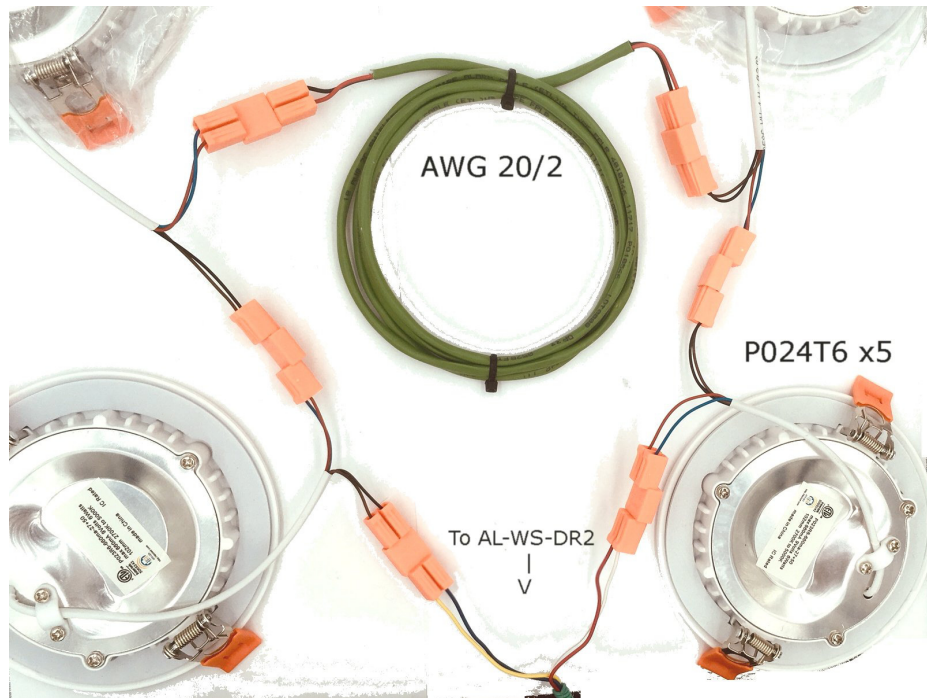
## Ordering part numbers / performance

Model	Voltage	Current	Watts	CCT	CRI	Lumens	Note
P02106-Q2C-2700K	5-6.1	0-660mA	4	2700K	90	500	warm side of 27/50K
	5-6.7	0-1100mA	7.5			700 1100	
P02106-Q2D-3500K	5-5.7	0-660mA	3.7	3500K	90	500	Simple fixed
	5-6.0	0-1000mA	6			700	
	5-6.5	0-1300mA	8.2			1100	
P02106-Q2C-3850K parallel	5-5.7	0-660mA	3.7	3850K	90	500	warm and cool in parallel
	5-6.0	0-1000mA	6			700	
	5-6.5	0-1300mA	8.2			1100	
P02106-Q2C-5000K	5-6.1	0-660mA	4	5000K	90	500	cool side of 27/50K
	5-6.7	0-1100mA	7.5			700 1100	
P02106-Q2C-27/5000K	5-6.1	0-660mA	4	Tunable 2700 to 5000	90	500	Tunable White
	5-6.7	0-1100mA	7.5			700 1100	
P02106-Q2D-27/5000K	5-5.5	0-660mA	3.7	Tunable 2700 to 5000	90	500	Tunable White
	5-5.7	0-1000mA	5.7			700	
	5-5.9	0-1300mA	7.5			1100	
P02106-Q4D-3500K	10-11.1	0-660mA	7.3	3500K	90	1000	Simple Fixed
	10-11.4	0-1000mA	11.4			1400	
	10-11.8	0-1300mA	15.6			2200	
P02106-Q4C-27/5000K	10-12.2	0-660mA	8	Tunable 2700 to 5000	90	1000	Tunable White
	10-13.2	0-1000mA	13.2			1400 2000	

# Series Wiring



# Tunable White LED wiring with just one pair of awg20



## Recommended wall DC Drivers for Q2D models @ 660mA

**N = # of LEDs**

DC drivers *	Total Wattage	# of fixtures Fixed color	# of Fixtures Tunable White	WiFi	DALI
AL-WS-DR1	<b>28</b>	<b>7</b>			
AL-WS-DR2	<b>28</b>	<b>7</b>	<b>6</b>		<b>6</b>
AL-WS-DR2W	<b>28</b>	<b>7</b>	<b>6</b>	<b>6</b>	
LDD-1500H	<b>75</b>	<b>7</b>			
LDD-1500HDA	<b>75</b>	<b>7</b>			<b>7</b>

\*51 volt DC input

## Recommended AC Drivers for Q2C (1000mA) and Q2D (1320 mA) models

**N = # of LEDs**

AC drivers from 120 / 240 vac to DC currents	Watts total	Fixed Color	Tunable White	0-10v	DALI
SMT-086-0700CM	<b>63</b>	<b>8</b>			<b>X</b>
SRPL-2305-80	<b>63</b>	<b>8</b>			<b>X</b>
SRPL-2309-80CCT	<b>63</b>		<b>8</b>		<b>X</b>
WP-80-40A-2AM	<b>63</b>	<b>8</b>	<b>8</b>	<b>X</b>	

## Recommended DC Drivers for Q4D models

**N = # of LEDs**

DC drivers *	Total Wattage	# of fixtures Fixed color	# of Fixtures Tunable White	WiFi	DALI
AL-WS-DR1	<b>28</b>	<b>4</b>			
AL-WS-DR2	<b>28</b>	<b>4</b>	<b>4</b>		<b>4</b>
AL-WS-DR2W	<b>28</b>	<b>4</b>	<b>4</b>	<b>4</b>	
LDD-1500H	<b>75</b>	<b>4</b>			
LDD-1500HDA	<b>75</b>	<b>4</b>			<b>4</b>

## Recommended AC Drivers for Q4D models

**N = # of LEDs**

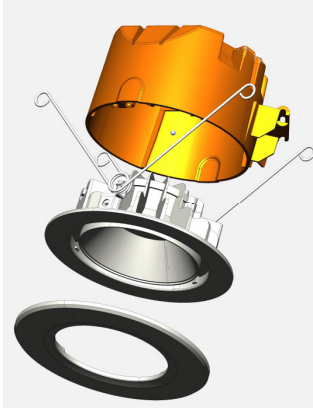
AC drivers from 120 / 240 vac to DC currents	Watts Total	Fixed Color	Tunable White	0-10v	DALI	DMX
SMT-086-0700CM	<b>76</b>	<b>4</b>			<b>X</b>	
SRP-2305-75CCT	<b>76</b>	4				
SRP-2309-75CCT	<b>76</b>		<b>4</b>		<b>X</b>	
WP-80-40A-2AM	<b>76</b>	<b>4</b>	<b>4</b>	<b>X</b>		

## 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
P02106-1000	169	6 5/8"	188	12	9	100	1000	S
P02106-48v12W	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**