

# ATX LED

**E26 / E12 LED Lights**  
**Low Voltage ( 9v / 48 vdc )**  
**Direct Current Controlled**

E26 / E12 series

Standard Edison  
Screw in Bulbs

Bright LEDs, Cool Operation



Frosted  
E26 A19



Filament  
E26 A60 A19 Style



Filament  
E12 C35 style

## [Operating Concept](#)

ATX LED provides light using DC currents at low voltages, this saves copper, and solves the flicker associated with conventional 120vac lighting. DC fixtures and bulbs with no internal drivers, allow perfect dimming and lower energy usage, they also last far longer since the parts that fail have been eliminated. We offer many bulb and fixtures types.

Over the 125 years since the Edison light bulb was invented, the E26 bulb base became the world wide standard, new and old fixtures can still be used in a DC project, using our E26 and E12 series.

Single bulb fixtures require no special consideration, and 120vac rated E26 / E12 fixture can be used. Indoor projects with 1-4 bulbs in one or more fixtures are best installed using the series (9v) wiring method. For larger fixtures, unmodified fixtures, and outdoors we recommend using the 48v type (native, parallel wiring). Either method results in excellent dimming and very long service life.

## Technical specifications

Model Type	Watts	Volts	Current	lm	Note
<b>E26 - 660mA</b>	<b>6</b>	<b>9</b>	<b>0 - 660mA</b>	540	5 in series max
<b>E12 - 660mA</b>	<b>4</b>	<b>6</b>	<b>0 - 660mA</b>	400	7 in series max
<b>E12 - 440mA</b>	<b>4</b>	<b>9</b>	<b>0 - 440mA</b>	400	5 in series max
<b>E26 - 48v6w</b>	<b>6 @ 48v</b>	<b>40 – 56 120 vac*</b>	<b>0 – 125 mA 8 mA*</b>	540	16 in parallel max
<b>E12 - 48v3w</b>	<b>3.5 @ 48v</b>	<b>40 – 56</b>	<b>0 – 65 mA</b>	350	32 in parallel max
Color Temperature Options					
Degrees K	2700 warm	3000	3500 Daylight	4000	CRI-90
Operating Temperature	-20 to 40 Deg C non condensing				

*120 vac\* operation is provided in case the bulb is installed into a 120vac wired fixture.*

## Detailed Wiring Options

Available in 3 different dimming styles, 2 different socket styles, 2 different filament styles, the ATX E26 and E12 series offers the same dimming controls as our P023 and DL series of downlights.

The models are:

- a) **CCR** – Constant Current Reduction. External Driver required. The voltage per LED is between 7.5 and 9 volts, with current from 0-660 mA for perfect flicker free dimming to 0.16%. Up to 5 LEDs are wired in series, and two series circuits are wiring to each AL-WS-DR2 for applications from 1 to 10 bulbs. Fixed color temperature, 3 color temperature options, Frosted and Filament style bulbs. The driver can be located up to 150 ft from the LEDs – since constant current eliminates the concerns about voltage drop
  
- b) **CV** – Controlled by Voltage. The Brightness is constant from 46v to 56 volts, and dimming down to 5% is possible over a 44 to 38 volt range using any ATX LED wall switch. Fixed color temperature, 3 color options.

Model	2700	3000	3500	4000	5000	Beam
Filament	X		*	X		Globular
Frosted		X	X	X		Hemisphere

**X= Stock, \* = on request**

## Other Dimmable LED Specifications

Model	Hole in Ceiling mm	Drill Size Inch	Finished Outside Diameter mm	Watts	Volts	Lm/W	mA	Wiring*
<b>P023R6-660</b>	102	4"	120	6	9	90	660	<b>S</b>
<b>P023R6-48v6w</b>	102	4"	120	6	48	90	120	<b>P</b>
<b>P023R11-1440</b>	169	6 5/8"	188	12	9	100	1440	<b>S</b>
<b>P023R11-48v12W</b>	110	4 1/4 "	120	12	48	90	240	<b>P</b>
<b>MR16</b>			49	5	48	100	100	<b>P</b>
<b>MS31008</b>	70	3	85	5.4	9	90	600	<b>S</b>
<b>DL-120</b>	102	4	120	6	9	130	660	<b>S</b>
<b>DL-98B</b>	70	2 3/4	85	6	9	130	660	<b>S</b>
<b>P023S12-1440</b>	Strip	3/4	4500	12	9	120	1440	<b>S</b>
<b>GU10</b>	60	50	60	5	48	130	100	<b>P</b>

\*S is serial

\*P is parallel

### Recommended 660mA DC Drivers with dimming

**N = # of LEDs** ( Use 51v supply to these dimmers )

DC drivers	6 Watt S	3.6 Watt P	WiFi	DALI
AL-WS-DR1	<b>5</b>	<b>11</b>		
AL-WS-DR2	<b>10</b>	<b>22</b>		<b>X</b>
AL-WS-DR2C	<b>10</b>	<b>22</b>		
AL-WS-DR2W	<b>10</b>	<b>22</b>	<b>X</b>	
AL-WS-Bath	<b>5</b>	<b>11</b>		

### Recommended 48v DC Drivers

DC drivers	Max Watts per Channel	Watts Total	Dimming	# Channels
AL-WS-DR1	<b>24</b>	<b>24</b>	<b>Yes</b>	1
AL-WS-DR2	<b>24</b>	<b>48</b>	<b>Yes</b>	2
SRP-2305-75	<b>75</b>	<b>75</b>	<b>Yes</b>	2
ELG-150-48DA	<b>150</b>	<b>150</b>	<b>Yes</b>	1
On/Off Switch	<b>100</b>	<b>100</b>	<b>No</b>	-

# Ordering part numbers

Model	Voltage	Current	CCT	CRI	Lumens	Filament	Frosted
RL-E26-660mA-2700K	7.5-9	0-660mA	2700K	80, 90	540	Filament	
RL-E26-660mA-3500K	7.5-9	0-660mA	3500K	80, 90	540	Filament	
RL-E26-660mA-4000K	7.5-9	0-660mA	4000K	90	540	Filament	
RL-E26-48v6w-2700K	44-56v	5-130mA	2700K	90	540	Filament	
RL-E26-48v6w-4000K	44-56v	5-130mA	4000K	90	540	Filament	
ATX-E26-660mA-3000K	7.5-9	0-660mA	3000K	90	540	Frosted	
ATX-E26-660mA-3500K	7.5-9	0-660mA	3500K	90	540	Frosted	
ATX-E26-660mA-4000K	7.5 - 9	0-660mA	4000K	90	540	Frosted	
RL-E12-440mA-2700K	7.5 - 9	0-440mA	2700K	90	400	Filament	
RL-E12-660mA-2700K	5 - 6	0-660mA	2700K	90	400	Filament	
RL-E12-660mA-4000K	5 - 6	0-660mA	4000K	90	540	Filament	
RL-E12-48v3w-2700K	44-56v	65 mA	2700K	90	400	Filament	
RL-E12-48v3w-4000K	44-56v	65 mA	2700K	90	400	Filament	