



LED DRIVERS

PRODUCT OVERVIEW:

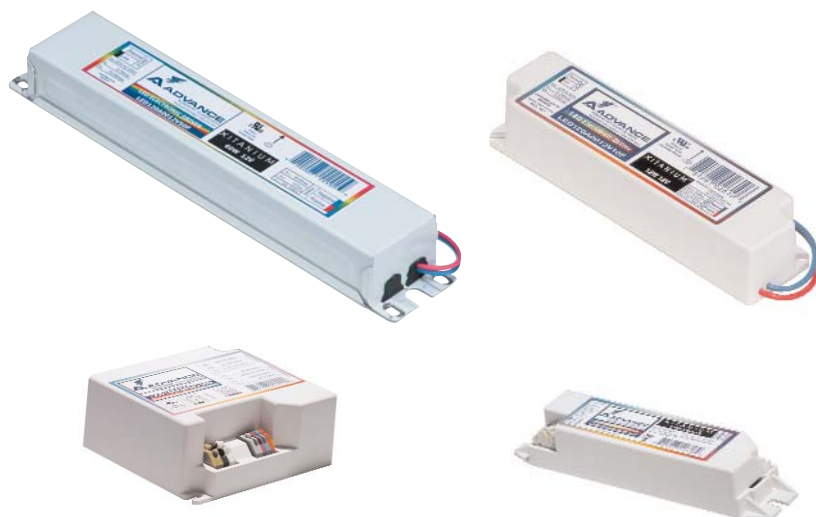
Using state-of-the-art technology, Xitanium® LED Drivers from Advance deliver solid performance, high reliability and full compatibility with a variety of 12 and 24 volt LED lighting systems as well as the latest systems using Luxeon technology. And now, Advance LED Drivers also feature Advance's exclusive IntelliVolt™ multiple-voltage technology, enabling the drivers to operate at any input voltage from 120 to 277 volts, 50/60 Hz... making the industry's first "intelligent" sign driver.

As with all of Advance's LED drivers, the new products support such standard features as leaded design, UL and CSA Class 2 rating including inherent short-circuit protection, high power factor, and operation down to -40°C. In addition, the drivers are rated for 50,000+ hours of life and carry Advance's full five-year warranty.

For additional information on LED drivers, please visit us at www.ledcentral.com

Xitanium®

Drivers for 12vdc and 24vdc LED Systems



DESIGN HIGHLIGHTS:

- UL Class 2
 - Limited output voltage and current, plus isolation for safe operation
- UL Outdoor Damp location rated - IP66
 - Fully potted for moisture resistance and thermal benefits
- Ultra small, compact size
 - Facilitates new, low-profile fixture design
- Extreme low temperature performance (-40°C)
 - Allows use in any outdoor application
- Generous high temperature capability (+60°C ambient; 80°/90°C case rating)
 - Margin flexibility to facilitate fixture design
- Tightly regulated output (1% line, 5% load)
 - Consistent light output across line and load levels
- 5-year warranty
 - Peace of mind for your new products and for end-users...from the industry's most trusted component maker
- Powered by Advance
 - Advance is preferred by end-users -- enhance the value of your product

APPLICATIONS:

- | | |
|-----------------------------|--------------------------|
| ■ Orientation/Step Lighting | ■ Architectural Lighting |
| ■ Channel Letters | ■ Contour Lighting |
| ■ Edge Lighting | |

LED Driver Specifications for Drivers for 12vdc and 24vdc

Description	Catalog Number	Input			Output			Max Allowable Case Temp (C)	Figure	Weight (lbs.)	Env. Rating
		Volts (50/60 Hz)	Power, Max (W)	Current, Max (A)	Power, Min (W)	Power, Max (W)	Current, Max (A)				
12VDC LED Systems											
12 Watt	LED-120A-0012V-10F	120 +/- 10%	15.0	0.13	2.0	12.0	1.00	90	C	0.30	Dry
25 Watt	LED-120A-0012V-21F	120 +/- 10%	21.5	0.18	2.3	25.2	2.10	90	B	0.35	Dry
60 Watt	LED-120A-0012V-50F	120 +/- 10%	75.0	0.63	10.0	60.0	5.00	90	D	1.40	Dry
60 Watt	LEDINTA-0012V-50FO	120	73.0	0.61	0.1	60.0	5.00	90	D	1.40	Damp
		230		0.32							
		277		0.26							
24VDC LED Systems											
17 Watt	LED-120A-0024V-07F	120 +/- 10%	21.5	0.18	2.4	17.0	0.70	90	A	0.15	Dry
17 Watt	LED-120A-0700C-24FO	120 +/- 10%	21.5	0.18	2.4	17.0	0.70	90	A	0.30	Damp
25 Watt	LED-120A-0024V-10F	120 +/- 10%	31.9	0.27	2.3	25.5	1.05	80	B	0.35	Dry
25 Watt Dimming	LED-120A-0024V-10D*	120 +/- 10%	31.9	0.27	15.0	25.5	1.05	80	B	0.35	Dry
40 Watt	LED-120A-0024V-18F	120 +/- 10%	51.0	0.43	5.6	40.8	1.75	85	B	0.60	Dry
80 Watt	LED-120A-0024V-33F	120 +/- 10%	100.0	0.83	10.0	80.0	3.30	90	D	1.40	Dry
100 Watt	LEDINTA-0024V-41FO	120	117.0	0.98	0.1	100.0	4.10	90	D	1.40	Damp
		230		0.51							
		277		0.42							

Total Harmonic Distortion: 20% max

Power Factor: 90% minimum

Efficiency: 90% typical

Line Regulation: 1% output voltage variation across input voltage range

Load Regulation: 5% output current variation across load range

Current Crest Factor: 1.5 Maximum

Environmental Protection: IP66 outdoor rated

EMI: FCC Class A

Protection: Meet UL 1310 for Class 2; Inherent short-circuit protection, self limited; overload protected; 3.2kv hz output isolation

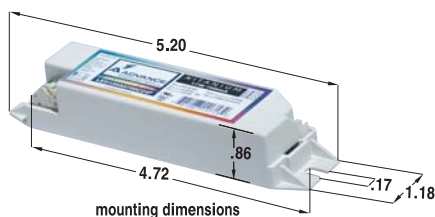


Figure A AC input: WAGO 2-pin wire trap, 18AWG solid or tinned stranded wire Line (black), Neutral (white)
DC output: Use Tyco-AMP connection cable 1365323-1 (not provided)

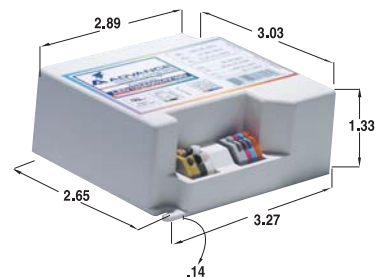


Figure B AC input: WAGO 2-pin wire trap, 18AWG solid or tinned stranded wire Line (black), Neutral (white) Ground (green)
DC output: WAGO 4-pin wire trap, 20AWG solid or tinned stranded wire Positive (red) Negative (blue), 0 – 10vdc dimming controls, if applicable (violet and grey)

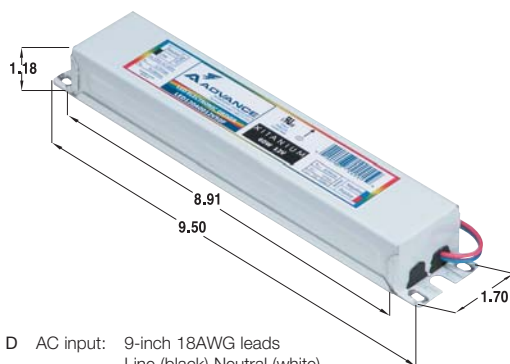


Figure D AC input: 9-inch 18AWG leads Line (black) Neutral (white)
DC input: 9-inch 18AWG leads Positive (red), Negative (blue)



Figure C AC input: 6-inch 18AWG leads Line (black), Neutral (white)
DC output: 6-inch 18AWG leads Positive (red), Negative (blue)