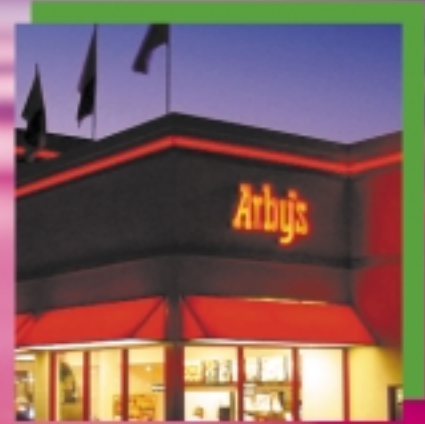




For Signage and Contour Lighting Applications



UL Class 2 and  
Damp Location  
Rated.



LED Sign Drivers

# Smarter Solutions

*Introducing...*

## **signPRO™ Drivers**

for Low-Voltage LED Lighting Systems



Designed specifically for sign and contour lighting - both outdoor and indoor applications

### **Taking LED lighting to a new level**

Using state-of-the-art technology, signPRO Drivers deliver solid performance, high reliability, and full compatibility with a variety of 12 and 24 volt LED lighting systems.

### **Standing up to adverse weather conditions**

Fully potted and meeting UL935 criteria for Outdoor Type 2 applications, signPRO Drivers are ideally suited for self-contained signs and raceways subjected to damp conditions. Their special electronic circuitry enables unheard-of, low-temperature performance—operating down to where Centigrade equals Fahrenheit at -40 degrees.

### **Compact, lightweight, modular designs**

Sized for tight spaces and ease-of-handling, signPRO Drivers facilitate versatile sign designs. Their lightweight construction adds to the ease-of-handling, while making the finished signs lighter and easier to manage.

### **Enhanced safety and wiring simplicity**

UL Class 2 rated, signPRO Drivers operate at safe, low DC voltage and current levels to reduce hazards. Inherent short-circuit protection eliminates nuisance fuse-blowing.

### **Peace-of-mind reliability**

signPRO Drivers are backed by Advance's 5-year warranty and Advance's team of service professionals at 1-800-372-3331.

*So be sure to specify signPRO Drivers when ordering your complete LED lighting systems. Contact your system provider today!*

Introducing smarter solutions for contour lighting applications and sign illumination: signPRO™ LED drivers, powered by Advance.

# LED Technology

## Long life, low maintenance, low energy

**Long life** – 50,000+ hour operating life with no maintenance – light lasts as long as the driver

**Low power consumption** – LED systems consume significantly less power than other options – up to 70% less than neon and up to 50% less than fluorescent

**Great color intensity** – especially reds, yellows and oranges, the most popular sign colors...better performance and value

**Stable light levels** – consistent lumens throughout the entire life of each sign. No dim or burnt out signs

**Flexible and tough** – small, compact, durable components create the flexibility for sleek, new uses of contour and halo lighting, and other applications

**Superior total cost of ownership** – Beats neon and fluorescent

## The signPRO™ Advantage

**Powered by Advance – A name you can trust**

**UL Class 2 rating** – Low DC voltage and current operation for enhanced safety and wiring simplicity... inherent short-circuit protection for the ultimate safeguard... eliminates the hassles of blown fuses.

**Long Life** – 50,000+ hours for no maintenance. No dark signs!

**Damp location rated** – Perfect for self-contained signs and installation in raceways...Need only connect black/white wires for easy-as-snap installation. Fully potted; meets UL935 criteria for Outdoor Type 2 applications.

**Tightly regulated output** – for consistent light output across line and load levels

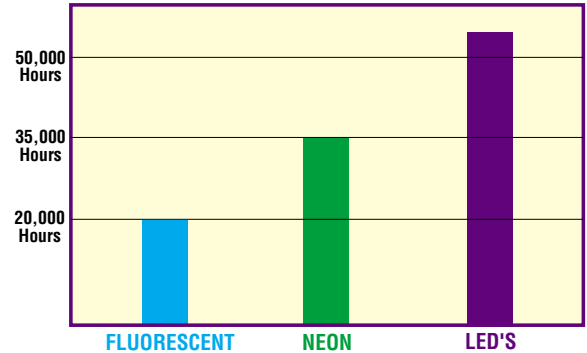
**Operates as low as -40C/F**...Unheard-of capability at temperature extremes.

**Compact, lightweight, modular components** open the door for self-contained letter applications, make signs lighter, and facilitate ease-of-use.

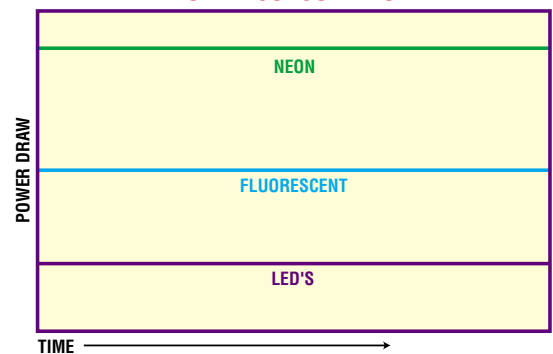
**High Power Factor** minimizes total amperage, to reduce number of power feeds required.

**Advance reliability**, backed by a full 5-year warranty. Peace-of-mind for your LED channel letter system.

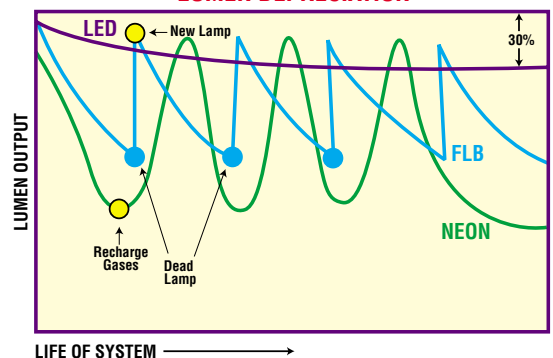
SYSTEM LIFE EXPECTANCY



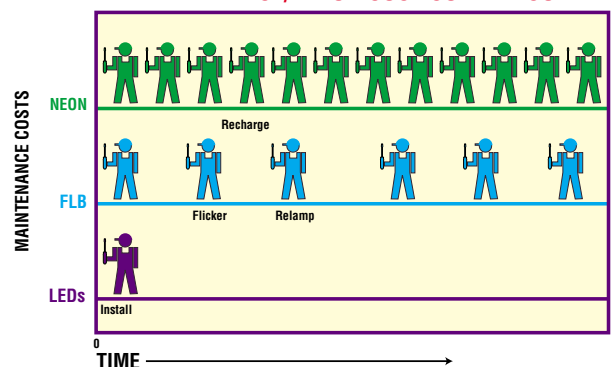
POWER CONSUMPTION



LUMEN DEPRECIATION



MAINTENANCE/LABOR COST COMPARISON



# signPRO™ Drivers for Signage and Contour Lighting Applications

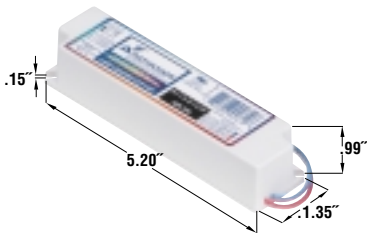
## signPRO™ LED Driver Specifications

Description	Catalog Number	Input			Output			Max Allowable Case Temp (C)	Figure	Weight ( lbs.)
		Volts (60 hz)	Power, Max (W)	Current, Max (A)	Power, Min (W)	Power, Max (W)	Current, Max (A)			
<b>12VDC LED Systems</b>										
12 Watt	LED-120A-0012V-10F	120 +/- 10%	15.0	0.14	2.0	12.0	1.0	85	A	0.14
60 Watt	LED-120A-0012V-50F	120 +/- 10%	75.0	0.70	10.0	60.0	5.0	90	B	1.50
240 Watt	LED-120A-0012V-50F4*	120 +/- 10%	275.0	2.55	10.0	60.0	5.0	80	C	6.00
<b>24VDC LED Systems</b>										
80 Watt	LED-120A-0024V-33F	120 +/- 10%	100.0	0.90	15.0	80.0	3.3	90	B	1.50
240 Watt	LED-120A-0024V-25F4*	120 +/- 10%	275.0	2.55	10.0	60.0	2.5	80	C	6.00

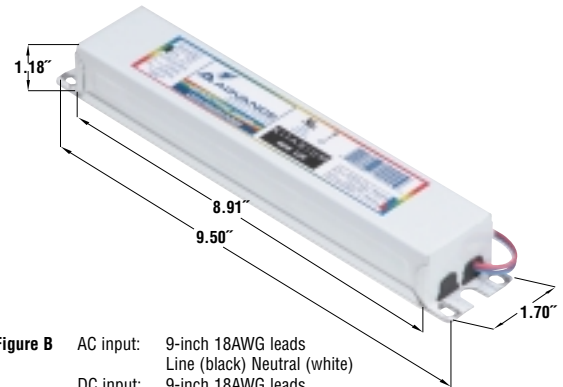
\*Driver has four independent output channels. Output data is "per channel", input data is total.

\*\*For complete specifications of dimming driver, see Advance Form No. LE-6010 available at [www.advancetransformer.com](http://www.advancetransformer.com)

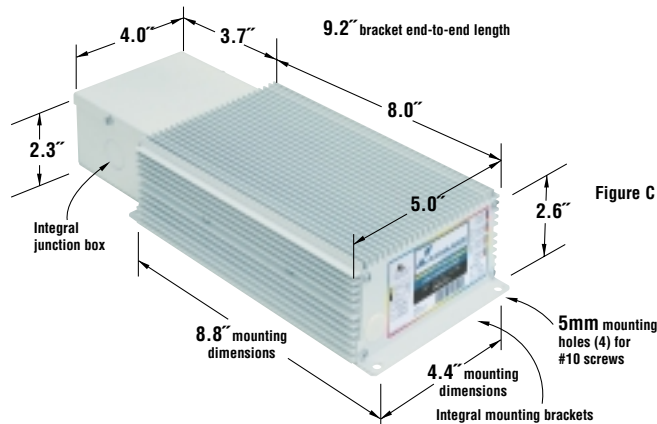
Total Harmonic Distortion: 20% max  
 Power Factor: 90% minimum  
 Efficiency: 80% typical  
 Line Regulation: 1% output voltage variation across input voltage range  
 Load Regulation: 5% output voltage variation across load range  
 Current Crest Factor: 1.5 Maximum  
 UL and C-UL Recognized  
 UL File Number E220165; Damp location rated  
 EMI: FCC Class A or B  
 Protection: Inherent short-circuit protection, self limited; overload protected; 3.2kv 60hz output insulation  
 Humidity: 80% RH



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



**Figure B** 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),  
 Ground (green)  
 DC output: 4 pairs of 6-inch 18AWG leads  
 Positive (red), Negative (blue)

