

## A011 FLEXBLOCK

### High Output Wide Range LED Driver

#### PRODUCT OVERVIEW

The A011 FlexBlock is a high output, wide range, LED driver that are a line of true current regulated drivers for powering LEDs. The LUXdrive FlexBlock™ line of LED drivers are the ideal choice for powering all types of high-brightness and high-power LED packages and arrays. The FlexBlock is capable of operating in either buck-boost or boost only modes.



Product		A011
General	Topology	Buck-Boost, Boost
	Input Connection	Red (V+) / Black (V-)
	Output Connection	White (LED +) / Blue (LED -)
	Dimming Connection	Pink (+) / Purple (-)
Electrical	Input Voltage	10 Vdc (min) 32 Vdc (max)
	Output Voltage, Buck-Boost	48Vdc - Vin
	Output Voltage, Boost	48 Vdc (max)
	Output Current (mA)	350, 500, 700
	Output Tolerance	±10%
	Efficiency	up to 95%
	Quiescent Current	< 6 mA
	Turn-On Voltage	1.7 Vdc ±5%
Dimming	Full-On Voltage	9 Vdc ±5%
	Dynamic Range	5 - 100%
	Current-Source	< 6 mA
	Operating Temp (Tcase)	-40 to 80° C
Environment	Storage Temp	-40 to 125° C
	Connection	6" 18 gauge wire
Mechanical	Dimension	2" x 1.2" 0.375"
	Weight	1.6 oz (45 g)
	Compliance	RoHS 3 (EU 2015/863)
Regulatory	Warranty	<a href="#">LEDdynamics Warranty</a>

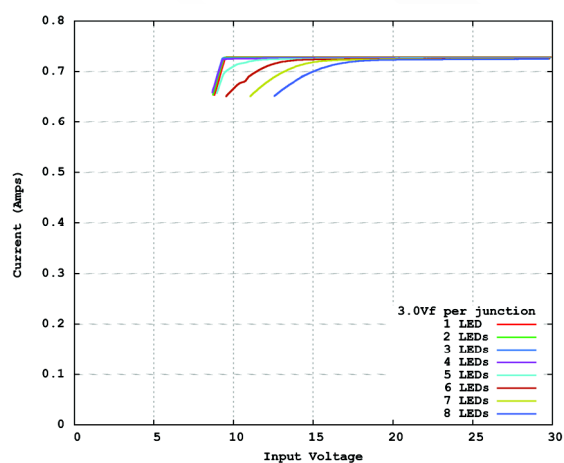
# A011 FLEXBLOCK

## High Output Wide Range LED Driver

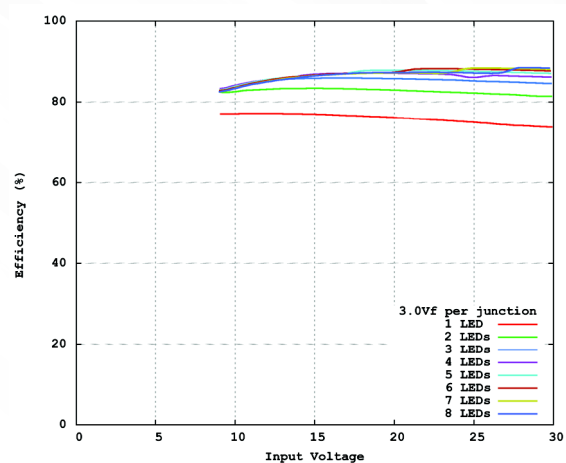
### Ordering Information

PRODUCT FAMILY	PART NUMBER	DESCRIPTION
FlexBlock	A011-D-V-350	LUXdrive FlexBlock 350mA
	A011-D-V-500	LUXdrive FlexBlock 500mA
	A011-D-V-700	LUXdrive FlexBlock 700mA

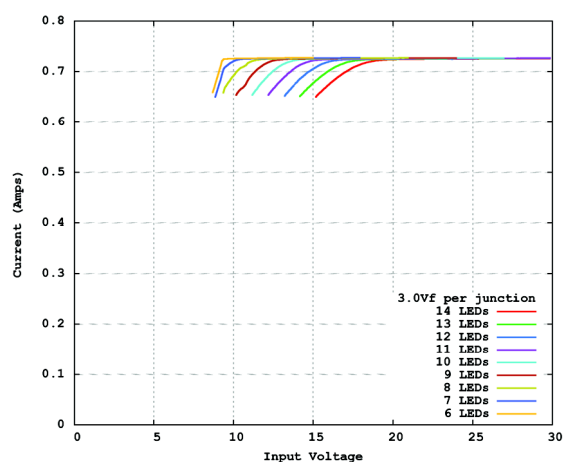
### Operation



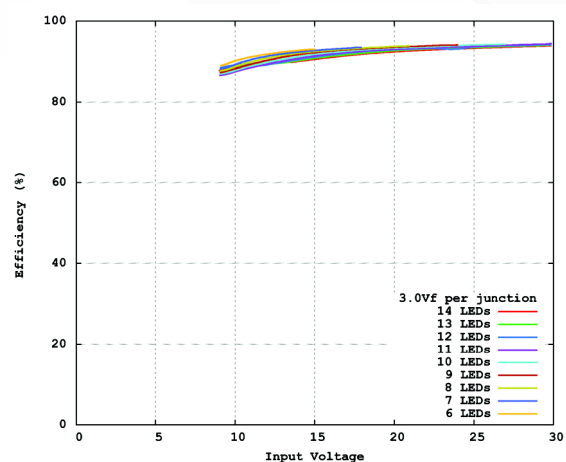
**Figure 1.** A011-D-V-700 Buck-Boost Mode  
Input Voltage vs Output Current



**Figure 2.** A011-D-V-700 Buck-Boost Mode  
Input Voltage vs Efficiency



**Figure 3.** A011-D-V-700 Boost Mode  
Input Voltage vs Output Current

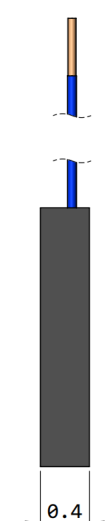
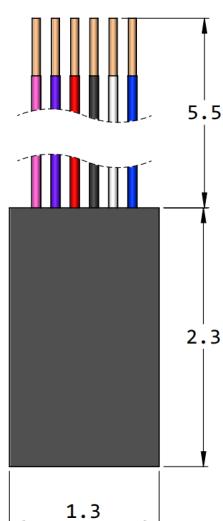
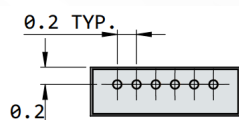


**Figure 4.** A011-D-V-700 Boost Mode  
Input Voltage vs Efficiency

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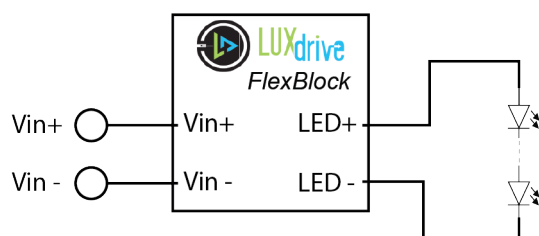
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### Mechanical

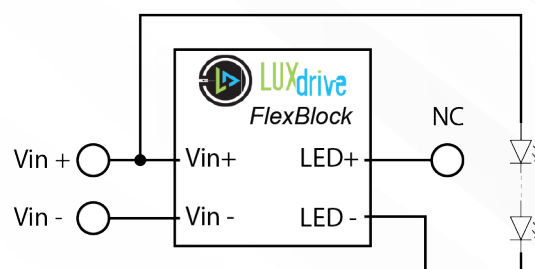


1. Dimensions in inches
2. Tolerance: 0.xx" =  $\pm 0.015$ "

### Wiring Examples



**Figure 5.** A011 Wire Diagram Buck-Boost Mode



**Figure 6.** A011 Wire Diagram Boost Mode  
Load must be greater than  $V_{in}$ .

**\*WARNING\***

**Do NOT apply power to input of the driver without first hooking up the load**