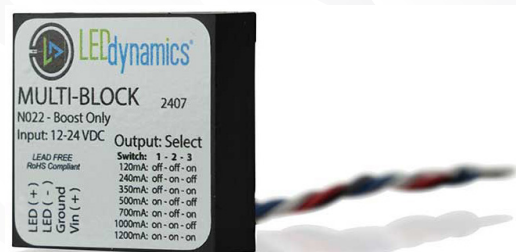


N022 - MULTIBLOCK

Selectable Current LED Boost Driver

PRODUCT DESCRIPTION

The LUXdrive™ N022 MultiBlock is an LED boost driver whose drive current can be selected on-the-fly using the switches on the unit itself. This functionality can be changed seamlessly for applications where different currents to the LEDs is desired.



Product		N022	
	Topology	Boost	
General	Input Connection	Red (V+) / Black (V-)	
	Output Connection	White (LED +) / Blue (LED -)	
Electrical	Input Voltage	12Vdc (min)	24 Vdc (max)
	Output Voltage	≥Vin (min) 24 Vdc (max)	
	Output Current (mA)	120, 240, 350, 500, 700, 1000, 1200	
	Efficiency	up to 92%	
	Quiescent Current	180uA (typ)	
Environment	Operating Temp	-20 to 80° C	
	Storage Temp	-40 to 80° C	
Mechanical	Connection	6" 18 gauge wire	
	Dimension	1.57" x 1.57" x 0.51"	
	Weight	1.5 oz (42g)	
Regulatory	Compliance	RoHS 3 (EU 2015/863)	
	Warranty	LEDdynamics Warranty	

Ordering Information

PRODUCT FAMILY	PART NUMBER	DESCRIPTION
LED Boost Drivers	N022	Selectable LED Boost Driver

N022 - MULTIBLOCK Selectable Current LED Boost Driver

Operation

The N022 is a boost driver that the output current is controlled by three switches on the backside of the unit. The position of these switches changes the current provided to the LEDs and can be changed during standard operation of the unit. Please reference the chart in figure 1 for the specific switch locations for the desired output current.

For all boost drivers the LEDs must be hooked up to the driver before power is applied to V_{in} . Failure to do this will cause permanent damage to the driver.

Output Current	Switch Position		
	1	2	3
Standby	OFF	OFF	OFF
120mA	OFF	OFF	ON
240mA	OFF	ON	OFF
350mA	OFF	ON	ON
500mA	ON	OFF	OFF
700mA	ON	OFF	ON
1000mA	ON	ON	OFF
1200mA	ON	ON	ON

Figure 1. Switch control for LED current



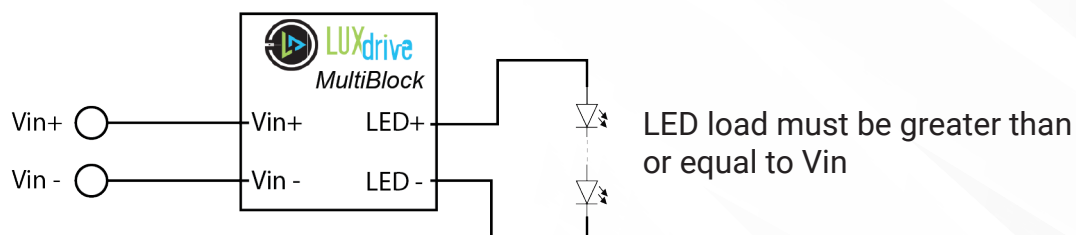
Figure 2. ON/OFF operation of the switch

WARNING

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

Disclaimer: Wires are permanently installed, do not remove from the connector

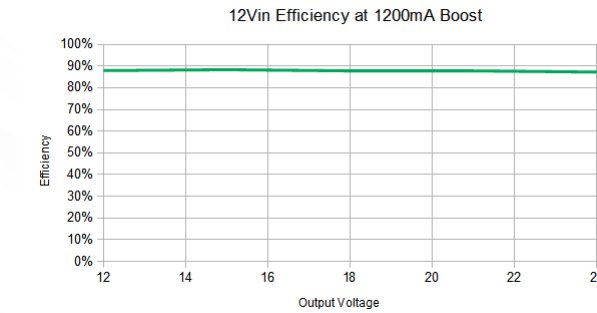
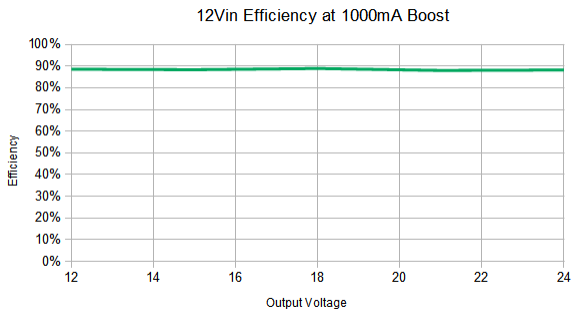
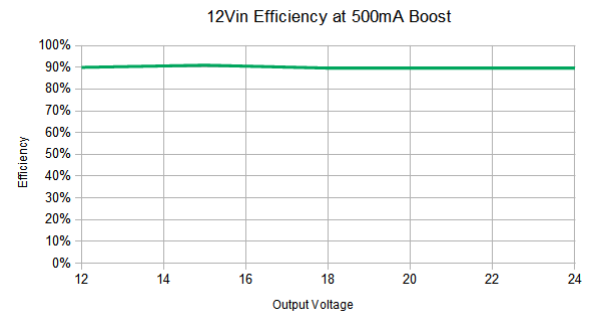
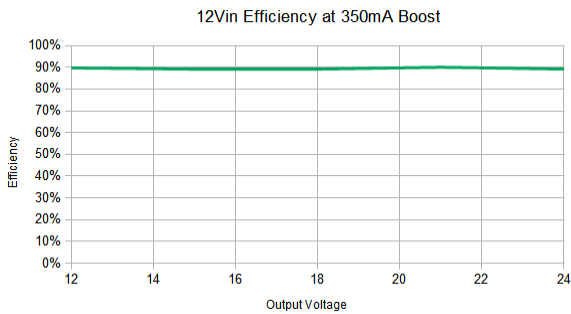
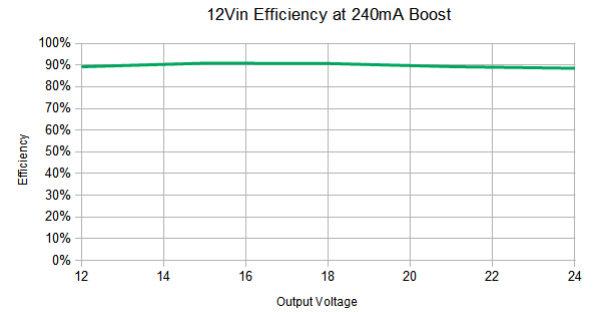
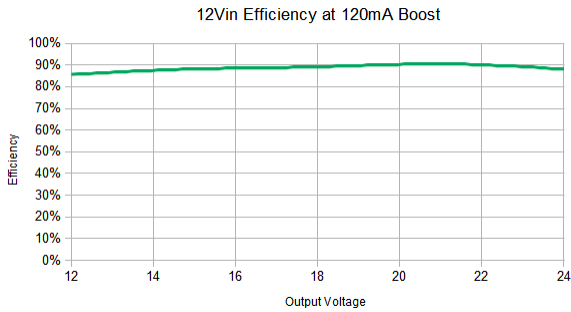
Wiring Examples



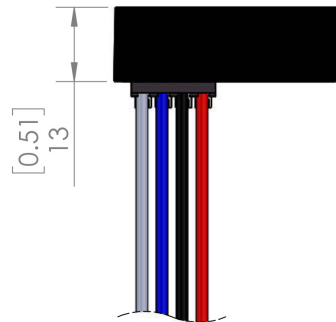
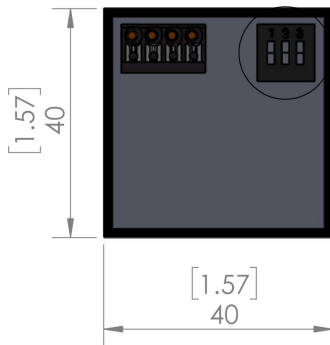
N022 - MULTIBLOCK

Selectable Current LED Boost Driver

Efficiency



Mechanical



1. Dimensions in inches
2. Tolerance: 0.xx" = +0.015"

Disclaimer: Wires are permanently installed, do not remove from the connector