

LED-18-350-120-D

LED-26-500-120-D

LED-36-700-120-D

LED-36-1050-120-D

Dimmable Constant Current LED Drivers for 350mA, 500mA, 700mA, and 1050mA LEDs

Features Highlight

- Dimmable: dims 3-12* LEDS from full brightness to 0.1% light output (with appropriate dimmers)
- operate with most common dimmers in the market both forward phase control (leading edge dimming) and reverse phase control (trailing edge dimming)
- Constant DC current output: over a range of 1000X
- MAX load 12 LEDS*
- MIN load 3 LED
- Output short circuit protection
- EMI: FCC Consumer Class
- Active power factor control
- Compact, lightweight
- Patent pending
- Complies with UL 1310 class 2 requirements

Operating Environment

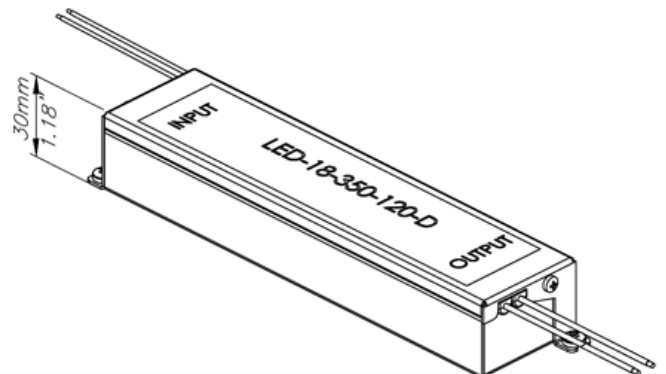
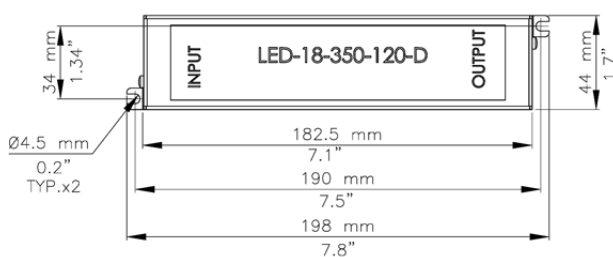
- Dry / Damp environment
- Max hotspot temperature 65C

Electrical

	18W	26W	36W(700mA)	36W(1050mA)
Max input watts	19	27	37	38
Output amps	.35	.50	.70	1.05
Input voltage	120Vac \pm 10%			
Frequency	50 / 60 Hz			
Power Factor	> 0.9			
Efficiency	~80%			
Turn off time	<100msec			
Undimmed output voltage	5.6V min, 42V max			

Mechanical:

- Dimensions (in) L x W x H:
7.09 x 1.73 x 1.18
- Output wires: red & black
Insulated 18 AWG 300V 200C UL1332
- Input wires: black & white
Insulated 18 AWG 300V 200C UL1332



*LED-36-1050-120-D can only drive up to 8 LEDS

INTRODUCTION TO LIGHTECH PHASE CONTROL DIMMING LED DRIVERS

These products make possible control of LED light output over a range in excess of 1000X. The same light can function both as a night light and as a regular room light! It can perform this function in conjunction with the most inexpensive TRIAC dimmers that can be found in the hardware store. Putting three of these products together controlling red, green and blue LEDs each with a separate dimmer allows an economical means of color mixing. For more elaborate installations, a three channel dimmer with memory can provide a repertoire of preset colors and lighting levels.

Contact your Lightech sales representative for a list of recommended dimmers.

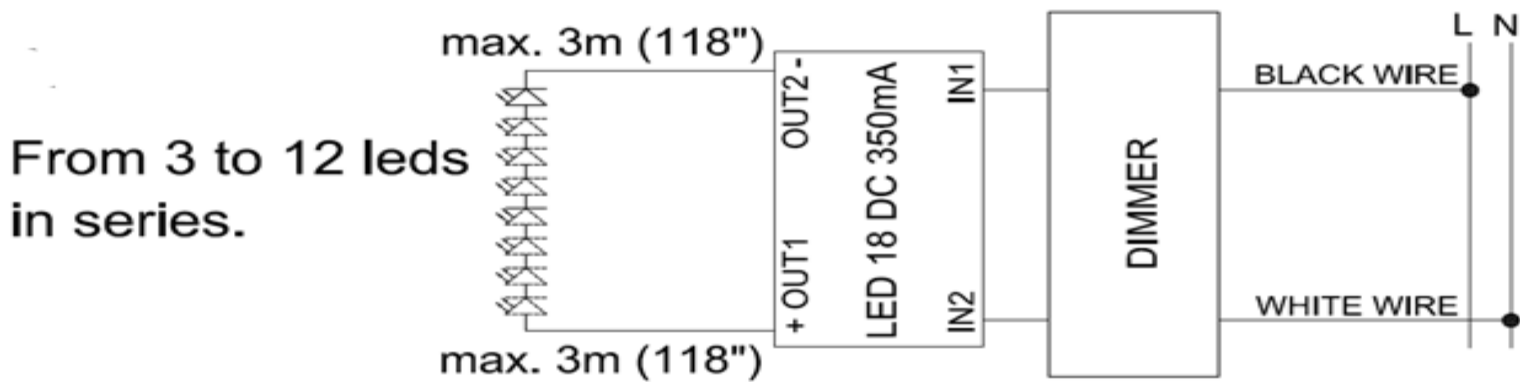
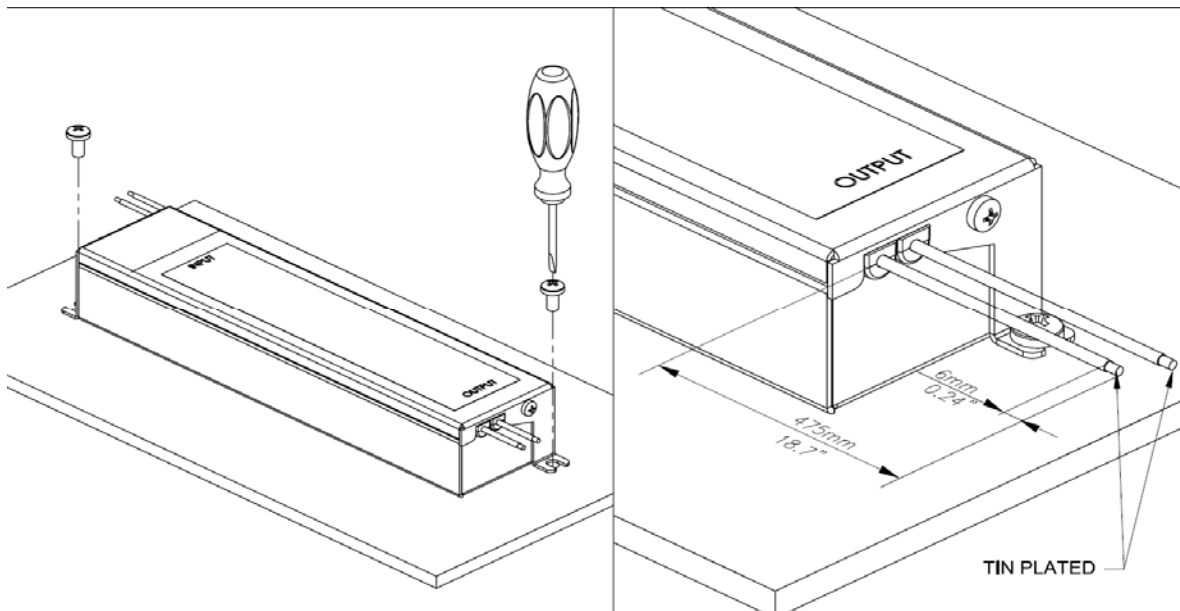
The dimming response is smooth and intuitive, and the 1000X plus range of control gives the operator a sense of control never before possible.

Specifiers will appreciate the quality of these products which have:

- 120 Hz ripple less than 2%
- Power Factor > 0.99
- THD < 20%
- Certification to pass FCC consumer emi requirements
- Turn off time less than 100 m secs
- Maximum output current inside 5 % of nominal, independent of line voltage.
- High quality internal components operated at low temperatures which predict a lifetime in excess of ten years of continuous operation for the 18W product.
- Internally protected against power line surges.
- UL class 2 isolation for complete handling safety
- Internally protected to withstand indefinite open circuit and short circuit conditions, with automatic reset.
- No audible acoustic noise
- Capability to work with any dimmer sold in the US today, either regular TRIAC dimming or reverse phase control (trailing edge) dimming.

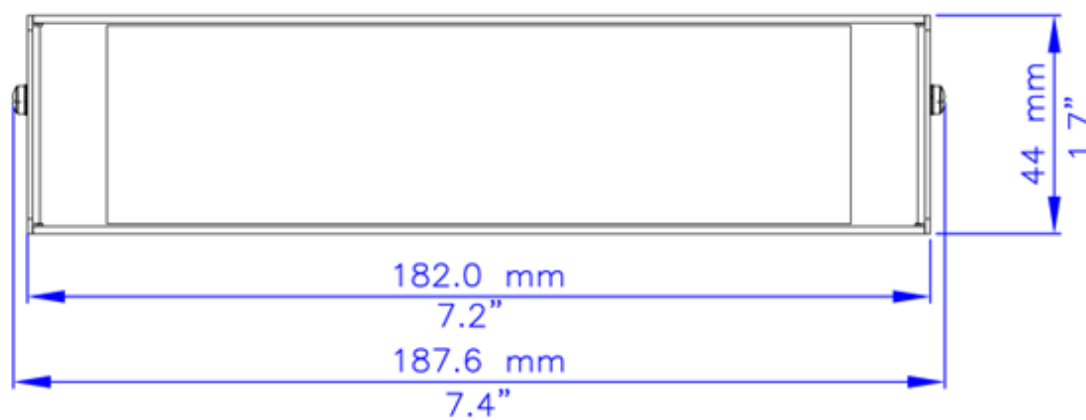
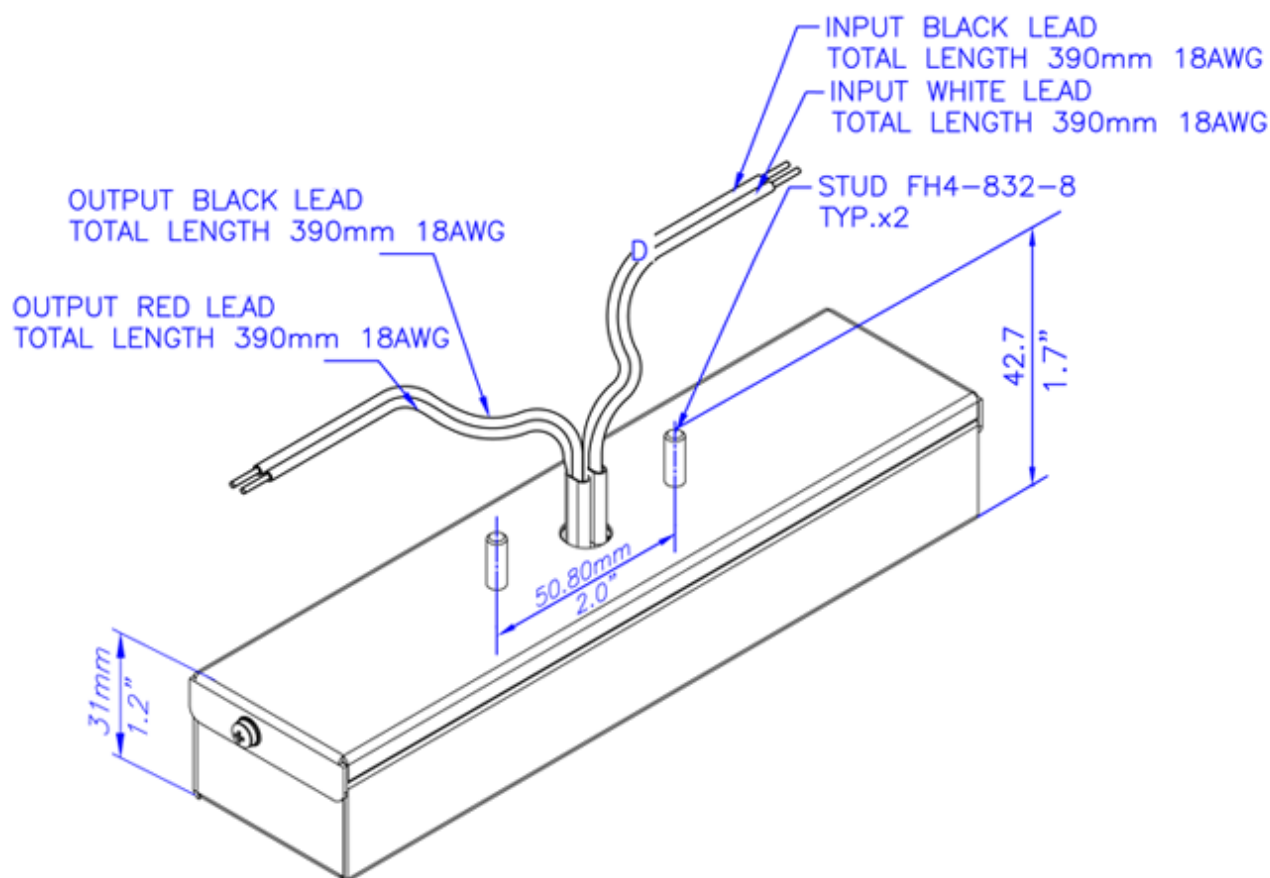
TYPICAL MOUNTING INFORMATION

Lightech phase control LED drivers

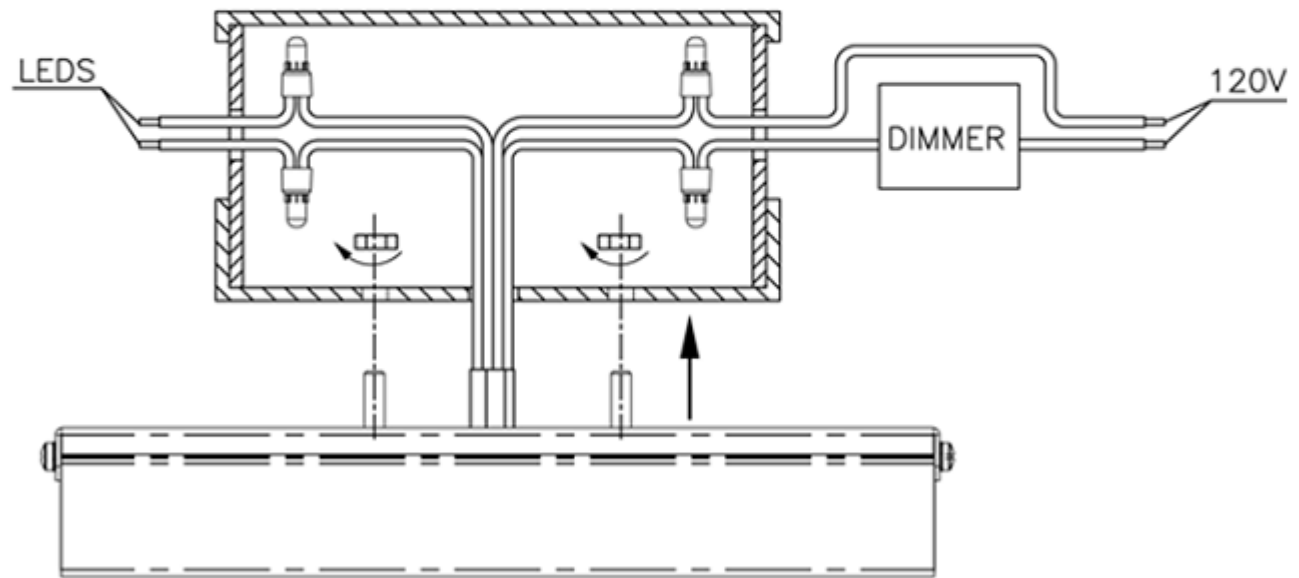


Alternative Bottom Feed can

To order add -BF to the part number



Typical Mounting of Bottom Feed can On Junction Box



Declaration of Conformity for electromagnetic interference

This equipment has been tested and found to comply with the limits for rf lighting devices pursuant to part 18 of the FCC rules, section 18.309 C (consumer). These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. There is no guarantee that interference will not occur in a particular installation.

Please note that TRIAC dimmers are permitted by the FCC to generate relatively high levels of interference compared to this product. If a problem is encountered with interference from such a dimmer, the use of the alternative reverse phase control or “trailing edge” dimmers should be explored, since these generate much less interference.