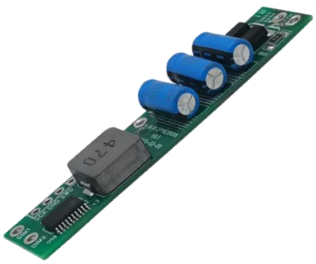
Features

- Wide application: compact size
- 3-in-1 dimming function (0-10V/PWM/Rx)
- Smooth dimming
- 5-year warranty (please refer to the warranty condition)



Applications

· Indoor office lighting · decorative lighting · commercial lighting · residential lighting

Descriptions

LF-BBA016-0400-42 is a 16W constant current LED driver with 3-in-1 dimming function. Its input voltage is 48Vdc±5% and output current is up to 400mA. It features compact size, built-in design (inside the magnetic track box), high efficency and smooth dimming.

Product Model

LF - BBA 016 - 0400 - 42

- 42: maximum output voltage: 42V
- 0400: maximum output current: 400mA
- 016: rated power: 16W
- BBA: 3-in-1 dimming LED driver

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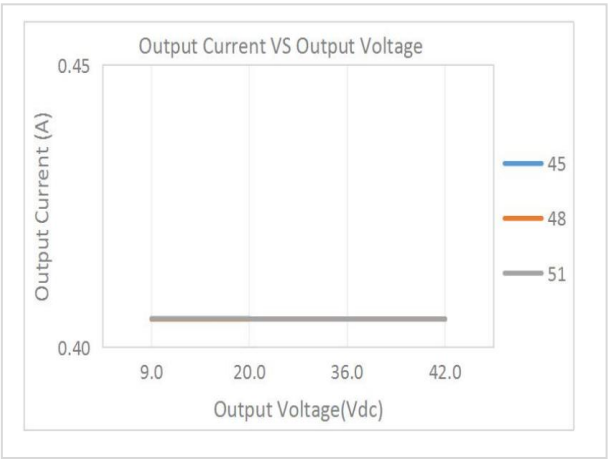
■ Electrical Characteristics

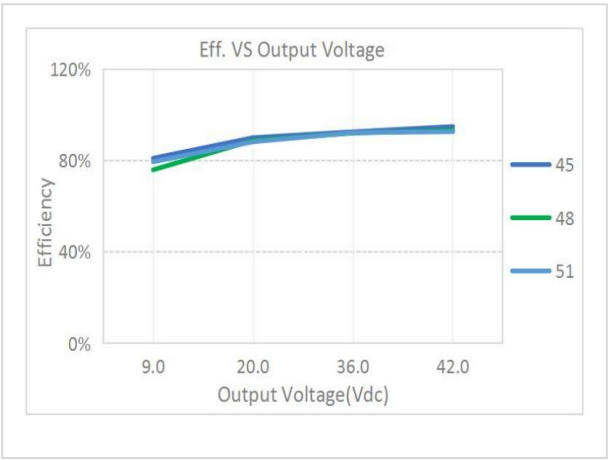
Model		LF-BBA016-0400-42
Output	Output Voltage	9-42V(Vin-Vo≥7V)
	Output Current	400mA
	Output Power	16.8W max
	Flicker Index	IEC-Pst≤1, CIE-SVM≤0.4 Complies with IEEE Std 1789-2015
	Current Tolerance	±6%
Input	Input Voltage	48Vdc (voltage input is neither positive nor negative)
	Input Current	0.4A max.
	Efficiency	≥92% (full load)
Protections	Short Circuit Protection	Auto-recovery
	Overload Protection	When the output voltage is exceeded, the output current drops, and the load is reduced to recover automatically.
	No Load Protection	No damage to driver (No-load voltage ≤59V)
	Reversing Protection	Normal output when input is reversed
Environment Descriptions	Operating Temperature	-20℃ - +55℃
	Operating Humidity	20-90%RH (without condensation)
	Storage Temperature/ Humidity	-30℃ - +80℃ (6 months in Class I environment); 10-90%RH (without condensation)
	Atmospheric Pressure	86-106kPa
Other Parameters	RoHS	RoHS 2.0（EU）2015/863
	Warranty	5 years
Testing Equipment	Digital power meter: CHROMA66202, oscilloscope: Tektronix DP03014, DC electronic load: IT8733, LED board, constant temperature and humidity chamber; Everfine EMS61000-5B; Everfine EMS61000-4A, spectroanalyzer: KH3935, hi-pot tester: SE7440, flicker tester (flicker-free coefficient test) LFA-3000, etc.	
Testing Remark	If there are no special remarks, the above parameters are tested at the ambient temperature of 25℃, humidity of 50%, full load and input voltage of 230Vac.	
Additional Remarks	1. The PC cover, casing and end cap for assembling the LED driver in the light fixture must meet the fire rating of UL94-V0 or above. 2. Pay attention to waterproof, moisture-proof and electrostatic proof during the usage. 3. Pay attention to the insulation of betweeen PCB boards and metal parts of the shell to avoid abnormalities.	

■ Product Characteristic Curves

Output Current & Voltage Curve



Efficiency Curve

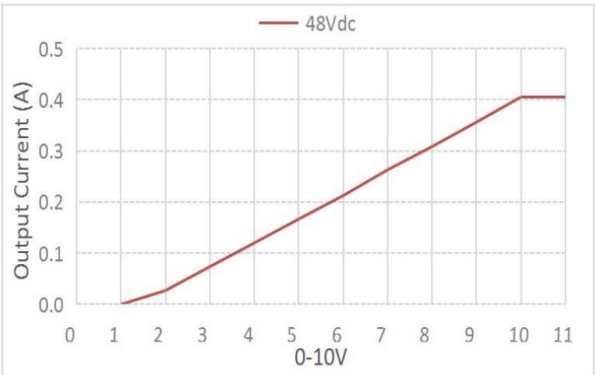


■ Dimming Operation Instructions

0-10V Dimming Operation

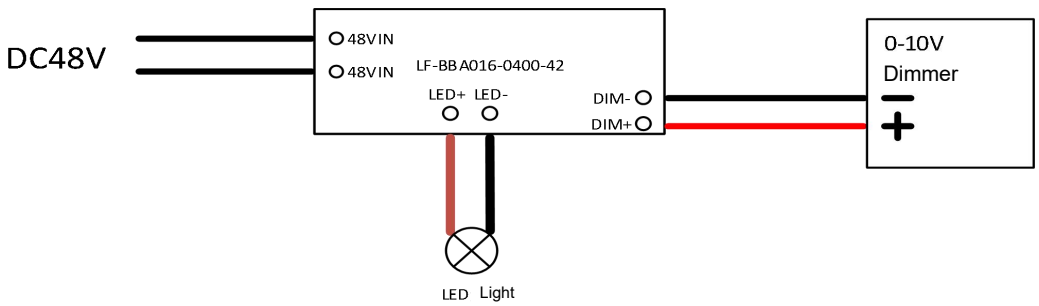
- Connect 0-10V signal to DIM terminal
- Smooth dimming
- Dim+/-(without signal connected): 100% rated current output

0-10V Dimming Curve



Remark: Input:48Vdc; output: 42VDC/400mA (This data is measured by Lifud 0-10V dimmer and the chart is for reference only)

Wiring Diagram of 0-10V Dimming



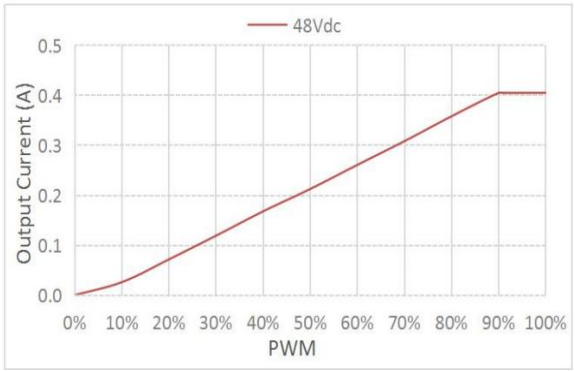
Remark: This is a wiring schematic, not a physical object, so specific to the actual wiring shall prevail.

■ Dimming Operation Instructions

PWM Dimming Operation

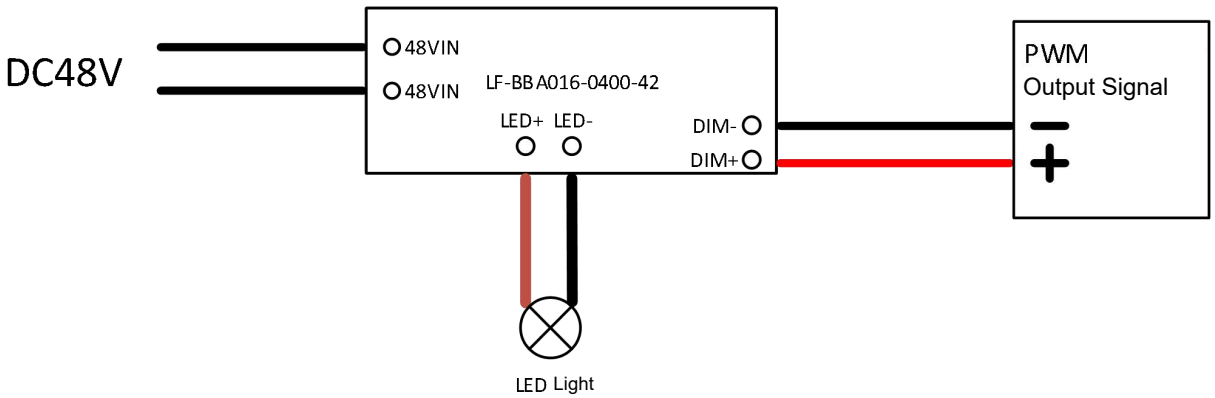
- Connect PWM signal to DIM terminal
- Compatible signal range: 400-4000HZ, amplitude (+10V)
- Dim+/-(without signal connected): 100% rated current output

PWM Dimming Curve



Remark: Input:48Vdc; output: 42VDC/400mA (This data is measured by Lifud PWM dimmer and the chart is for reference only)

Wiring Diagram of PWM Dimming

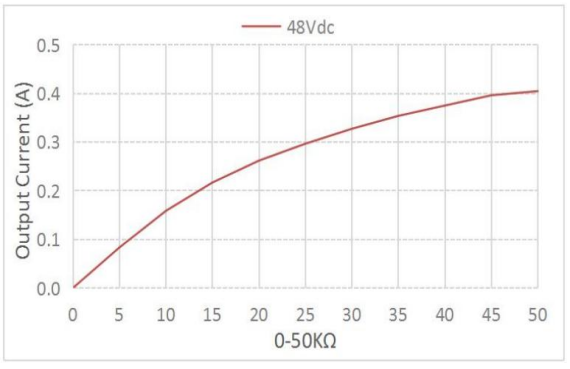


Remark: This is a wiring schematic, not a physical object, so specific to the actual wiring shall prevail.

Rx Dimming Operation

- Connect Rx signal to DIM terminal
- Dimming Range: 0-50K
- Dim+/-(without signal connected): 100% rated current output

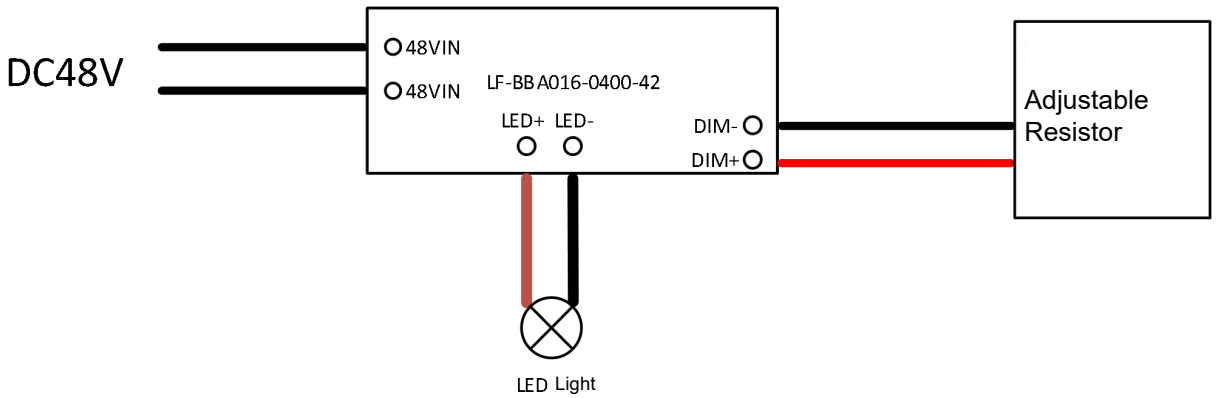
Rx Dimming Curve



Remark: Input:48Vdc; output: 42VDC/400mA (This data is measured by Lifud Rx dimmer and the chart is for reference only)

■ Dimming Operation Instructions

Wiring Diagram of Rx Dimming



Remark: This is a wiring schematic, not a physical object, so specific to the actual wiring shall prevail.

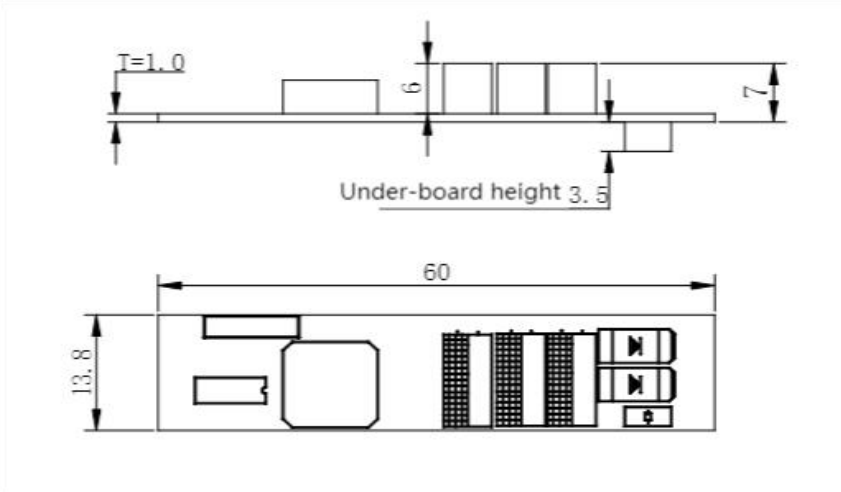
■ Product Definitions

INPUT	
48VIN	DC Input (Positive/negative electrode)
48VIN	DC Input (Positive/negative electrode)
DIM+	Positive electrode input of 3-in-1 dimming
DIM-	Negative electrode input of 3-in-1 dimming

OUTPUT	
LED+	Positive electrode output of LED driver
LED-	Negative electrode output of LED driver

■ Structure and Dimensions (unit: mm)

Appearance and dimensions



■ Packaging Specifications

Model	LF-BBA016-0400-42
Carton Size	385*285*210 mm (L*W*H)
Quantity	50 pcs/layer; 10 layers/ctn; 500 pcs/ctn
Weight	0.0062 kg/pc; 4.4 kg/ctn

■ Transportation and Storage

1. Transportation

- Suitable transportation means: vehicles, boats and aeroplanes.
- In transit, it is necessary to prepare awnings for rain or sun protection. Moreover, please keep civilized loading and unloading to prevent the vibration or impact of LED driver as much as possible.

2. Storage

- The storage of LED driver shall conform to the standard of Class I environment. When using LED drivers which have been stored for more than 6 months, please re-test them firstly. Do not use them unless they are tested to be qualified.

Cautions

- Please use Lifud LED driver according to its parameters in the specification, otherwise the LED driver may malfunction.
- Using any incompatible light fixtures or those that have not been certified may cause fire, explosion or other risks.
- Man-made damage is beyond the scope of Lifud warranty service.

Remark: Lifud Tecnology Co., Ltd. reserves the right to interpret any contents of this specification.