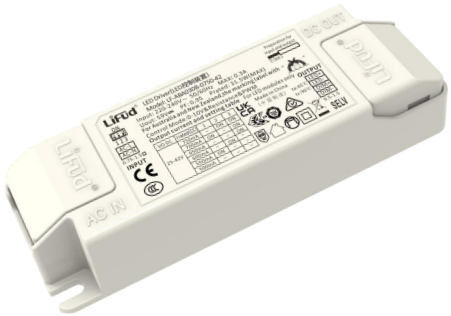
Features

- Supports 0-10V/PWM/Rx dimming
- THD <10%
- Output current adjustable via DIP switch
- Surge: L-N 2kV
- Flicker free
- 1% dimming depth
- IP20
- Suitable for Class II light fixtures
- 5-year warranty (please refer to the warranty condition)



Applications

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

Descriptions

LF-ABA030B-0750-42 is a constant current LED driver with the maximum output power of 31.5W. Its rated input voltage ranges from 220 to 240Vac and its output current can be adjusted via DIP switch from 500mA to 750mA with every 50mA as a step. Besides, it has all-round protection, including open circuit protection and short circuit protection. It is suitable for panel lights, downlights and so on.

Product Model

LF - ABA 030B - 0750 - 42

- 42: maximum output voltage: 42V
- 0750: maximum output current: 750mA
- 030: rated power: 30W
- ABA: indoor 3-in-1 dimming LED driver series

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■ Electrical Characteristics

Model		LF-ABA030B-0750-42					
Output	Output Voltage	25-42V					
	Output Current	500mA	550mA	600mA	650mA	700mA	750mA
	Ripple current (≤100Hz)	±3.3%					
	Flicker Index	IEC-Pst≤1, CIE SVM≤0.4 According to IEEE Std 1789-2015.					
	Current Tolerance	±5%					
	Temperature Drift	±10%					
	Startup Time	<1S					
Input	Rated Input Voltage	220-240Vac					
	Input Voltage Range	198-264Vac					
	Input Frequency	50/60Hz					
	Input Current	0.3A max.					
	PF	≥0.95					
	THD	<10%					
	Efficiency	≥88%					
	Inrush Current	<25A&120uS					
	Loading Quantity on Circuit Breaker	Model	B10	C10	B16	C16	
		Quantity (pcs)	26	26	42	42	
	Leakage Current	<0.7mA					
	Standby Power Consumption	≤0.5W (dims to off)					
Protections	Open Circuit	<59V					
	Short Circuit	Hiccup mode (auto-recovery)					
Environment Descriptions	Operating Temperature	-30℃ - +45℃					
	Operating Humidity	20-90%RH (without condensation)					
	Storage Temperature/ Humidity	-40℃~+80℃ (6 months in Class I environment); 10-90%RH (without condensation)					
	Atmospheric Pressure	86-106kPa					
Surge	L-N	2kV					

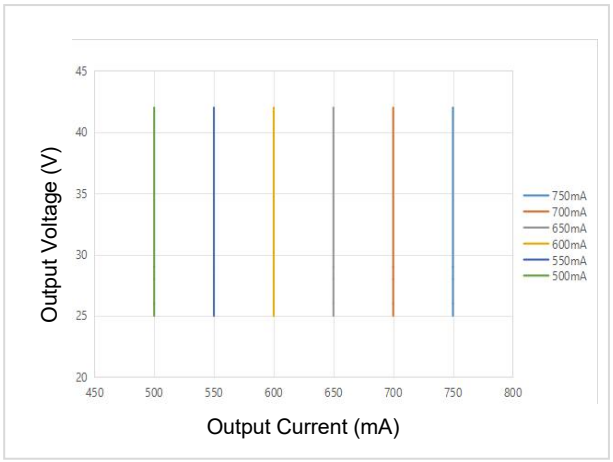
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■ Electrical Characteristics

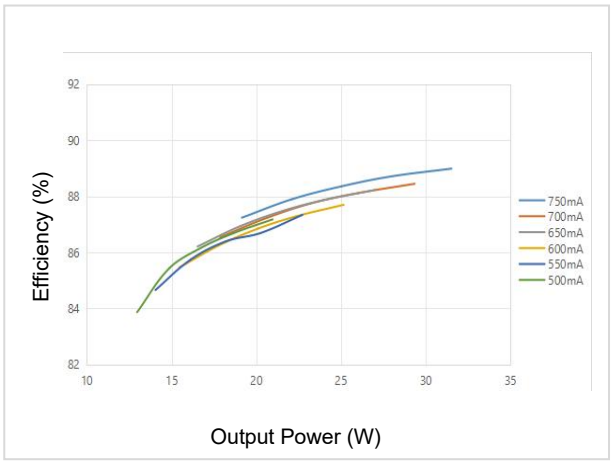
Safety and EMC	Certifications	ENEC, CE, RCM, CCC, UKCA
	Withstanding Voltage	I/P-O/P: 3.75kV&5mA&60S; I/P-DIM O/P-DIM: 1.5kV&5mA&60S
	Insulation Resistance	I/P-O/P I/P-DIM O/P-DIM: >100MΩ@500VDC
	Safety Standards	ENEC: EN61347-1:2015, EN 61347-2-13:2014/A1:2017, EN 62384:2020 CE-LVD: EN 61347-2-13:2014/A1:2017, EN 61347-1:2015, EN 62493:2015 RCM: AS 61347.2-13:2018 SAA: AS 61347.1:2016+A1:2018 AS 61347.2.13:2018 CCC: GB19510.1-2009, GB19510.14-2009 UKCA: BS EN IEC 55015:2019+A11:2020, BS EN 61547:2009, BS EN IEC 61000-3-2:2019, BS EN 61000-3-3:2013/A2:2021
	EMI	CE-EMC/RCM: EN55015, EN61000-3-2, EN61000-3-3 CCC: GB/T17743, GB17625.1, GB17625.2
	EMS	CE-EMC/RCM: EN61000-4-2, 3, 4, 5, 6, 11 CCC: GB/T17626.2, 3, 4, 5, 6, 11
Other Parameters	IP Rating	IP20
	RoHS	RoHS 2.0 (EU) 2015/863
	Tc Max	90℃
	Warranty Condition	5 years (Tc ≤90℃)
	Noise Level	≤25dB (this data is measured in a soundproof room and the noise collector should be 10CM away from LED driver)
Testing Equipment	AC power source: CHROMA6530, digital power meter: CHROMA66202, oscilloscope: Tektronix DPO3014, DC electronic load: M9712B, LED board, constant temperature and humidity chamber, lightning surge generator: Everfine EMS61000-5B, rapid group pulse generator: Everfine EMS61000-4A, spectroanalyzer: KH3935, hi-pot tester: EEC SE7440, flicker tester (flicker-free coefficient test) Everfine LFA-3000, etc.	
Test Remark	If there are no special remarks, the above parameters are tested at the ambient temperature of 25℃, humidity of 50%, maximum output power and input voltage of 230Vac/50Hz.	
Additional Remarks	1. It is recommended that user install over voltage protection, under voltage protection and surge protection devices in the power supply circuits of light fixtures to ensure electricity safety. 2. The LED driver used in combination with the end device is one of the accessories of the whole light fixture, and the EMC of the whole light fixture is not only susceptible to the driver itself, but to the LED light fixture and the whole light fixture's wiring. Thus, the manufacturer of LED light fixture should re-confirm the EMC of the whole light fixture before the whole light fixture is finished. 3. The number of LED drivers that can be connected to a circuit breaker and the inrush current are tested under the same conditions. 4. Lifud reserves the right to interpret any of the above parameters.	

■ Product Characteristic Curves

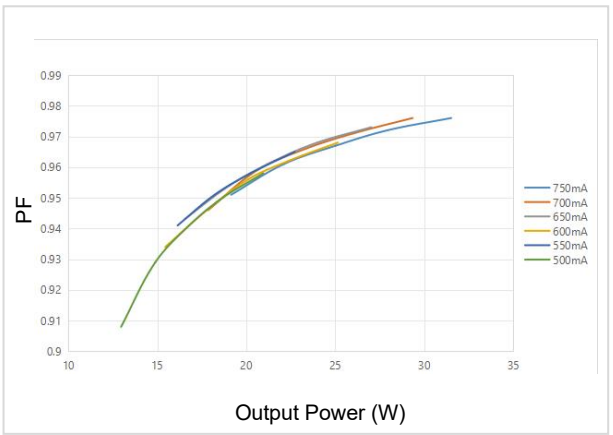
Working Window Curve



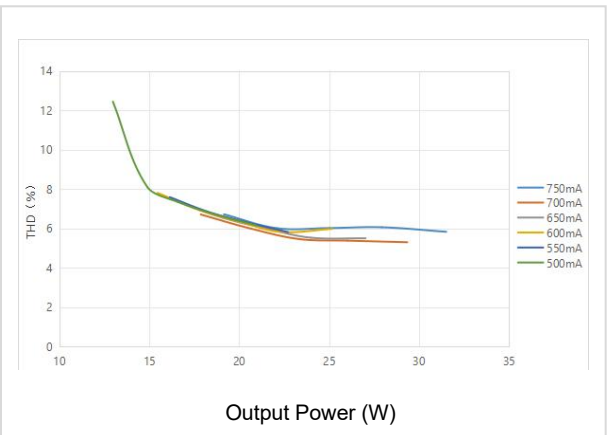
Efficiency Curve



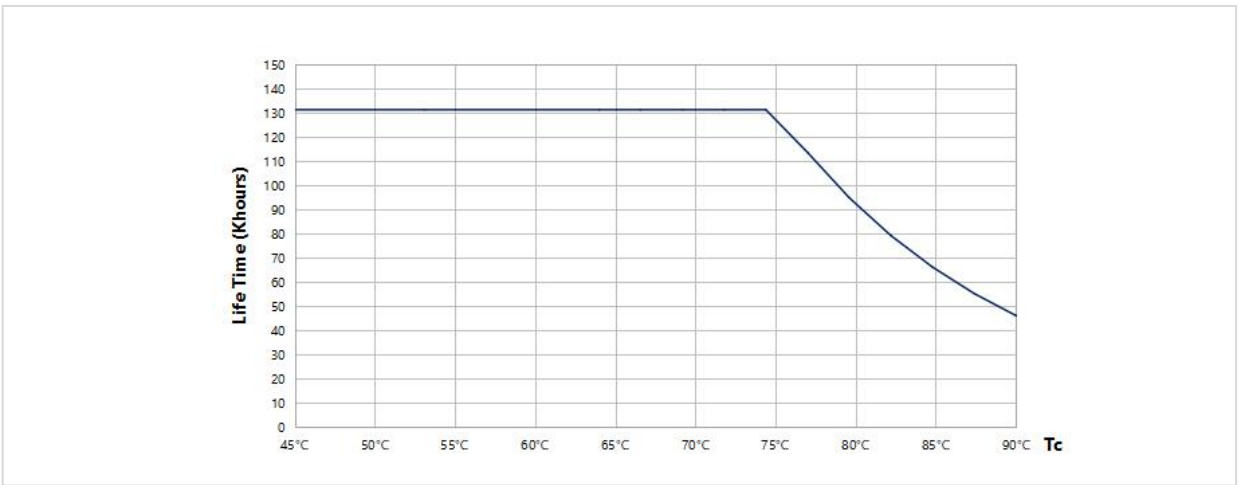
PF Curve



THD Curve

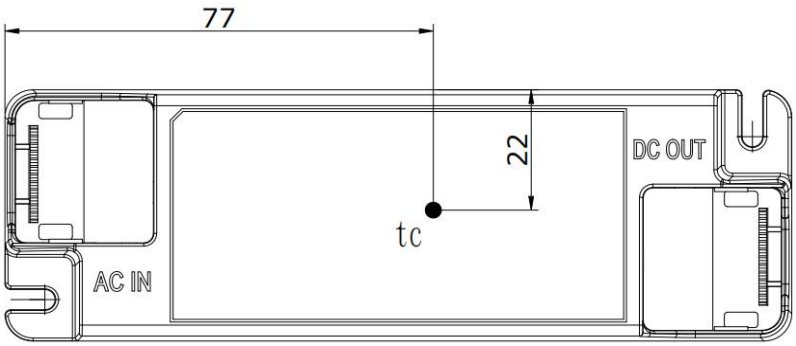


Lifetime Curve



■ Product Characteristic Curves

Tc Point Testing Diagram



Tc point is at the bottom of LED driver

■ Definitions of Product Terminals

Input		Output	
AC-L	Input terminal of AC live wire	LED+	Positive terminal output of LED driver
AC-N	Input terminal of AC neutral wire	LED-	Negaitive terminal output of LED driver
/	/	DIM+	Positive terminal of dimming
/	/	DIM-	Negaitive terminal of dimming

■ Definitions of DIP Switch

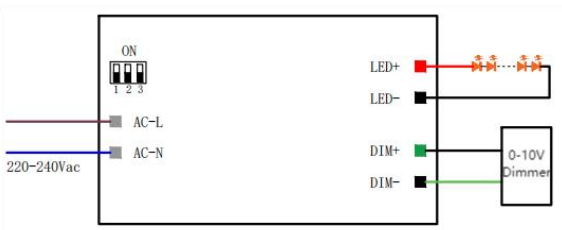
Vo DC	I rated (CC)	1	2	3
25-42V	750mA	-	ON	ON
	700mA	ON	-	ON
	650mA	-	-	ON
	600mA	-	ON	-
	550mA	ON	-	-
	500mA	-	-	-

Remark: "-": shift OFF. Please do not use the DIP switch when the LED driver is powered on. If DIP switch function needed, please disconnect input AC power supply first.

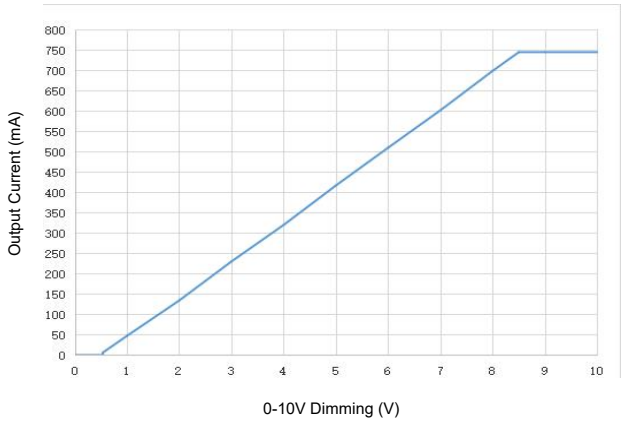
0-10V Dimming Operation

- Connect 0-10V signal to DIM terminal.
- In 0-10V dimming mode, when the input voltage is 0.55V±0.05V, the light turns on. When it's 0.35V±0.1V, the light turns off @Uo max&Ta=25℃.
- Dimming depth: 1%
- DIM+/- (without signal connected): 100% rated current output

Wiring Diagram of 0-10V Dimming



Dimming Curve of Dim-to-Off Version



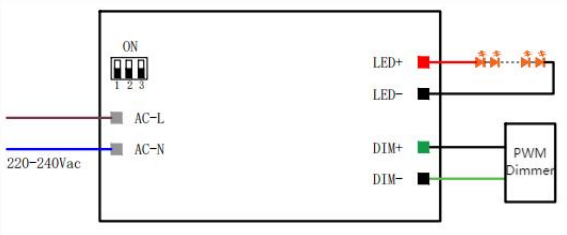
Input: 230Vac, output: 42Vdc/750mA (The data is measured by Lifud 0-10V dimmer and the chart is for reference only)

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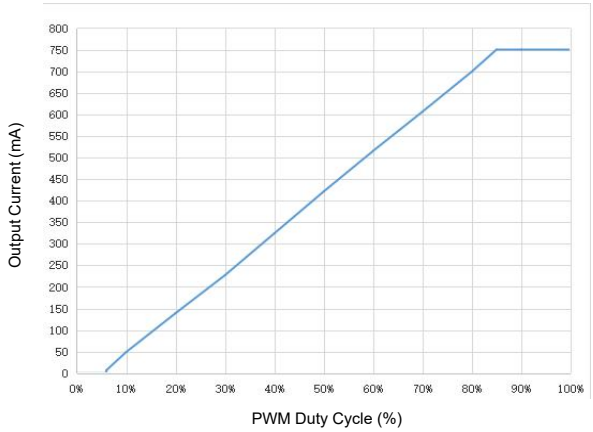
PWM Dimming Operation

- Connect PWM signal to DIM terminal.
- Compatible signal range: 400-1000(Hz); amplitude: 9-10(V)
  When it is 6%±1%, the light turns on;
  when it is 3.5%±1%, the light turns off.
  @Uo max&Ta=25℃
- Dimming depth: 1%
- DIM+/- (without signal connected): 100% rated current output

Wiring Diagram of PWM Dimming



Dimming Curve of Dim-to-Off Version



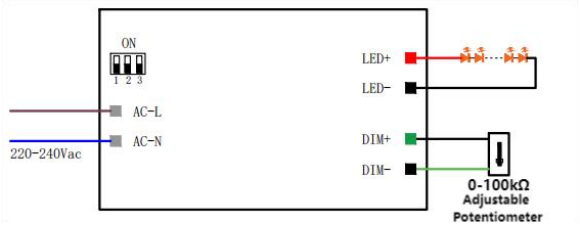
Input: 230Vac, output: 42Vdc/750mA (The data is measured by PWM signal generator RIGOL and the chart is for reference only)

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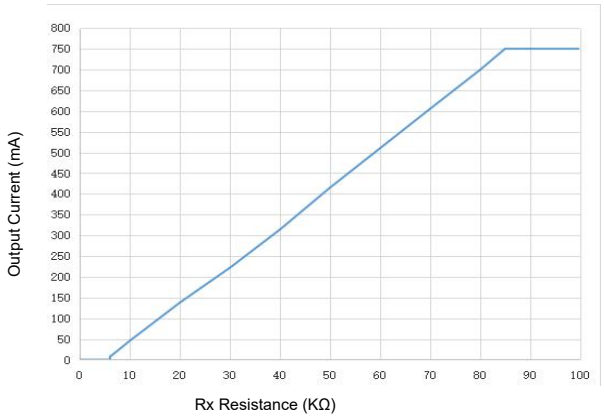
Rx Dimming Operation

- Connect Rx signal to DIM terminal.
- Range: 0-100KΩ@Uo max&Ta=25℃
  When it is 5.5KΩ±1KΩ, the light turns on;
  when it is 3KΩ±1KΩ, the light turns off.
- Dimming depth: 1%
- DIM+/- (without signal connected): 100% rated current output

Wiring Diagram of Rx Dimming



Dimming Curve of Dim-to-Off Version

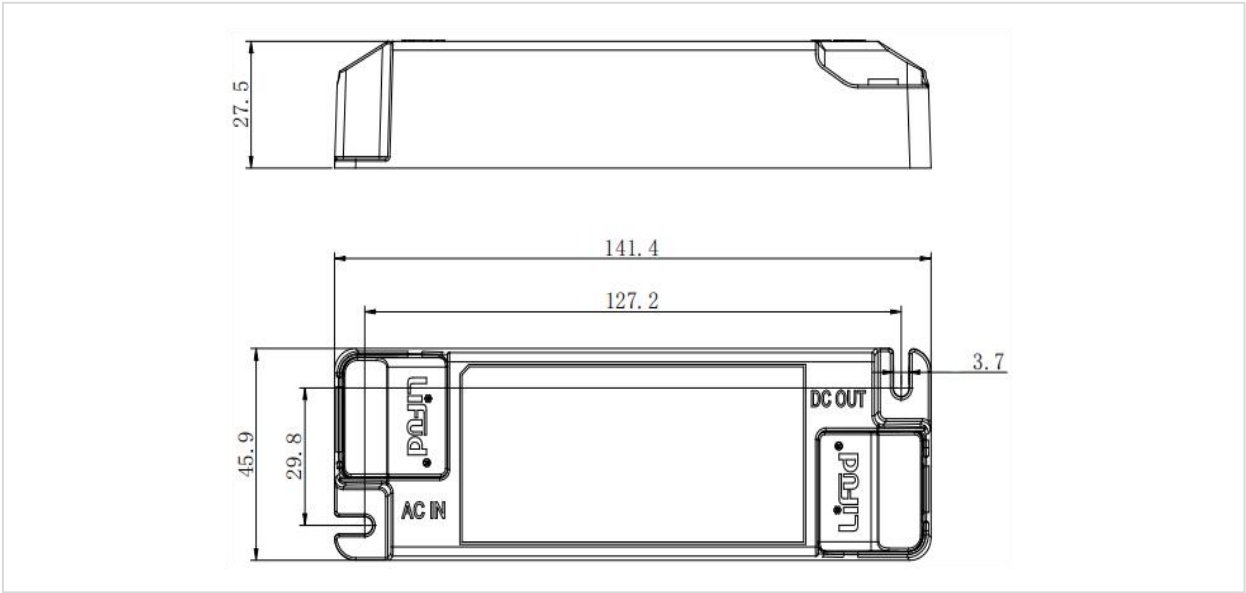


Input: 230Vac, output: 42Vdc/750mA (The data is measured by LEVITON dimmer and the chart is for reference only)

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■ Structure & Dimensions (unit: mm; tolerance: ±0.5mm)

Model	Overall Appearance Dimension (L*W*H)	Distance Between 2 Positioning Holes (L*W)	Diameter of Positioning Hole (D)
LF-ABA030B-0750-42	141.4*45.9*27.5 mm (±0.5mm)	127.2*29.8 mm (±0.5mm)	3.7 mm



■ Packaging Specifications

Model	LF-ABA030B-0750-42
Carton Size	385*285*210 mm (L*W*H)
Quantity	10 pcs/layer; 7 layers/ctn; 70 pcs/ctn
Weight	0.11 kg±5% /pc; 8.72 kg±5% /ctn

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■ 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 on 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 content of this specification.

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