

### **Product Description**

LF-AAT040-1050-42 is a 40W constant current flicker free LED driver with Triac dimming function. It is compatible with leading edge and trailing edge dimmers. It has flicker free effect during the whole process of dimming. The dimming range is 0-100%. The dimming depth is 0.1%. The input voltage range is 198-253Vac. The output current can be adjusted via the DIP switch from 700mA to 1050mA, in steps of 50mA.

#### **Features**

- IP20
- Suitable for Class II light fixtures
- Constant current output and the output current can be adjusted via the DIP switch
- Built-in active PFC function
- 0.1% dimming depth
- Triac dimming
- Compact size
- Smooth dimming effect with 0.1% dimming depth
- 5-year warranty (Please refer to the warranty condition.)

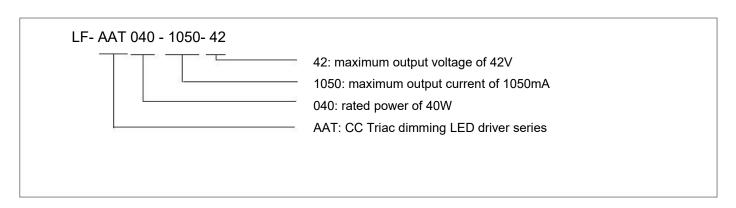




# **Applications**

- EU-Standard panel light
- Spot light
- Down light

#### **Product Model**





# **Electrical Characteristics**

Model		LF-AAT0401050-42							
	Output Voltage	9-42V	9-42V	9-42V	9-42V	9-42V	9-42V	9-40V	9-38V
Output	Output Current	Adjustable current via the DIP switch, please refer to the DIP Switch Table.							
		700mA	750mA	800mA	850mA	900mA	950mA	1000mA	1050mA
	Flicker Index	IEC-Pst ≤1, CIE SVM ≤0.9, Modulation Depth ≤1% Conforms to the flicker free standard (IEEE Std 1789-2015)							
	Current Tolerance	±5%							
	Temperature Drift	±5%							
	Startup Time	<1.5S@230Vac, 38V/1050mA							
	Input Voltage	220-240Vac (voltage limit: 198-253Vac)							
DC Input Voltage 176-280Vdc  Input Frequency 47Hz-63Hz  Input Current 0.3A Max.									
			Т						
	PF	≥0.88	≥0.89	≥0.85	≥0.90	≥0.90	≥0.90	≥0.90	≥0.90
	Efficiency	≥83%	≥83%	≥83%	≥84%	≥84%	≥84%	≥83%	≥83%
Input	Inrush Current	≤60A&2600uS@230Vac							
Input	Anti-Surge	L-N: 1KV							
	Leakage Current	≤0.5mA							
Protections	Open Circuit	<59V							
	Short Circuit Hiccup Mode (auto-recovery)								
Environment Descriptions	Working Temperature	-20℃~+45℃							
	Working Humidity	20-90%RH (no condensation)							
	Storage Temperature/Humidity	-30°C~+60°C (six months under class I environment); 10-90%RH (no condensation)							
	Atmospheric Pressure	86KPa~106KPa							

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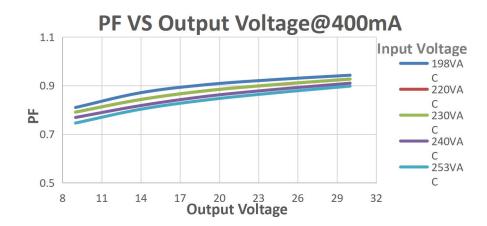
	Certifications	CE, CCC			
	Withstanding Voltage	I/P-O/P: 3.75kV 5mA 60S			
Safety &	Insulation Resistance	e I/P-O/P: >100MΩ@500Vdc			
Electromagnetic	Safety Standards	CE-LVD: EN 61347-2-13: 2014/A1: 2017, EN 61347-1: 2015,			
Compatibility		EN 62493: 2015			
		CCC: GB19510.1-2009, GB19510.14-2009			
	EMI	CE-EMC: EN55015, EN61000-3-2, EN61000-3-3			
		CCC:GB/T17743, GB17625.1, GB17625.2			
	EMS	CE-EMC: EN61000-4-2, 3, 4, 5, 6, 11			
		CCC: GB/T17626.2, 3, 4, 5, 6, 11			
	IP Rating	IP20			
Othor	RoHS	RoHS 2.0 (EU) 2015/863			
Other Parameters	Warranty Condition	5 yrs (Tc≤86˚ℂ)			
	Noise Level	≤29dBA (It is tested in a quiet room and the noise collector should be tested 10CM from the LED driver)			
	1. It is recommended that client install over voltage protection, under voltage protection and				
	surge protection devices in the power supply circuits of light fixtures to ensure electricity				
	safety.				
	2. Please disconnect input AC power supply before adjusting the output current via the DIP switch.				
Remarks	3. The PC shade, casing and plug for assembling the LED driver in the light fixture must meet				
	the fire rating of Ul	L94-V0 or above.			
	4. The LED driver used in combination with the end device is one of the accessories in the				
	whole light fixture, and its EMC 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 performance of LED driver before the whole light fixture is finished.				
		eters are tested at the ambient temperature of 25 $^\circ\!\!\!\!\!\!^\circ$ , humidity of 50%, full			
	load, input voltage of 230Vac/50Hz without any special remarks.				
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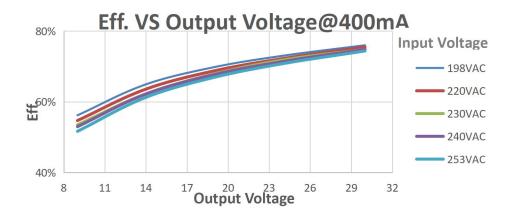


### **Product Characteristic Curves**

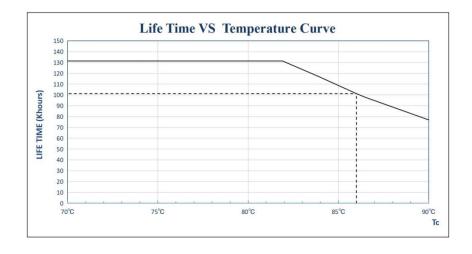
### **■ PF Curve**



# **■** Efficiency Curve



### **■ Lifetime Curve**





# **Instructions of Dimming Operation**

#### **■** Terminals

### **INPUT**

AC-L	Input terminal of AC live wire
AC-N	Input terminal of AC neutral wire

## OUTPUT

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

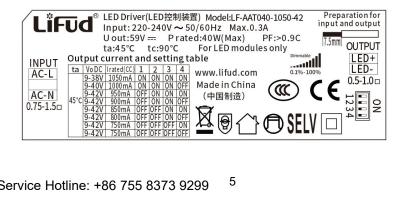
### **■ DIP Switch**

I rated (CC)	1	2	3	4	DIP Switch Diagram
1050mA	ON	ON	ON	ON	
1000mA	ON	ON	ON	OFF	
950mA	OFF	ON	ON	ON	1 2 3 4
900mA	OFF	ON	ON	OFF	₹ 4
850mA	OFF	OFF	ON	ON	ON OFF
800mA	OFF	OFF	ON	OFF	
750mA	OFF	OFF	OFF	ON	
700mA	OFF	OFF	OFF	OFF	

### ■ Triac Dimming Wiring Diagram



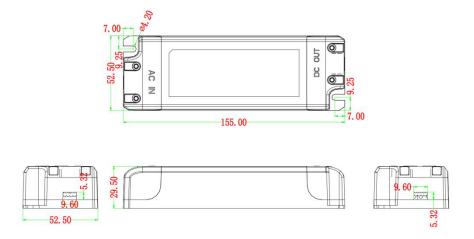
### Label



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# Structures & Dimensions (unit: mm)



# **Packaging Specifications**

Model	LF-AAT030-0750-42
Packaging Dimensions	385*285*210 mm (L*W*H)
Quantities	8 pcs/layer; 5 layers/ctn; 40 pcs/ctn
Weights	0.209 kg/pc; 8.86 kg/ctn

# **Transportation & Storage**

#### **■** 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.

#### ■ 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.

#### **Attention**

- 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.
- The problem of man-made damage to LED driver cannot be solved by Lifud.

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