

Product Description

LF-AAT030-750-42 is a 30W constant current LED driver with Triac dimming function. It is compatible with leading edge and trailing edge dimmers and it is flicker-free during the whole process of dimming. Its dimming range is 0-100% and its maximum dimming depth is 0.1%. Its input voltage range is 198-253Vac. The output current can be adjusted via a DIP switch from 400mA to 750mA, in steps of 50mA.

Features

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

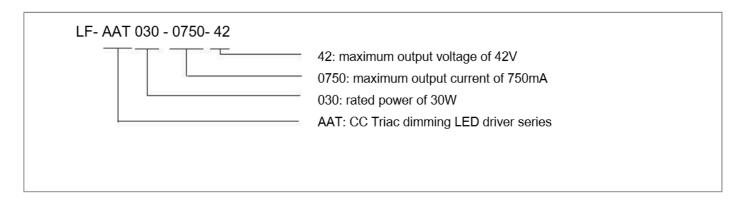


Applications

- Horticultural lighting
- Indoor office lighting
- Decorative lighting
- Commercial lighting
- Residential lighting



Product Naming



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Electrical Characteristics

Model		LF-AAT030-0750-42							
	Output Voltage	9-42V	9-42V	9-42V	9-42V	9-42V	9-42V	9-42V	9-40V
		Adjustable current via the DIP switch, please refer to the DIP Switch Table							
	Output Current	400mA	450mA	500mA	550mA	600mA	650mA	700mA	750mA
Output	Flicker Index	IEC-Pst ≤1, CIE SVM ≤0.9, Modulation Depth ≤1% Conforms to the flicker free standard (IEEE Std 1789-2015)							
	Current Tolerance	±8%				±5%			
	Temperature Drift	±10%							
	Input Voltage	220-240Vac (voltage limit: 198-253Vac)							
	DC Input Voltage	176-280Vdc							
	Input Frequency	47Hz-63Hz							
	Input Current	0.25A Max							
	Power Factor	≥0.90							
	Efficiency	≥80%	≥81%	≥82%	≥83%	≥83%	≥84%	≥84%	≥84%
Input	Inrush Current	≤60A&2600uS@230Vac							
Input	Load Quantity	Circuit Breaker Mode		odel	B10	C10	В	316	C16
	Carried by the Circuit Breaker	Quantity (pcs)			43	43	(68	68
	Surge Protection	L-N: 1kV							
	Leakage Current	≤0.5mA							
Protections	Open Circuit	<59V							
Trotodiono	Short Circuit	Hiccup Mode (auto-recovery)							
	Working Temperature	-20°C~+45°C							
Environment	Working Humidity	20-90%RH (no condensation)							
Environment Descriptions	Storage	-30°C~+60°C (six months under class I environment);							
	Temperature/Humidity	10-90%RH (no condensation)							
	Atmospheric Pressure	86kPa~	106kPa						

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	Certifications	TUV-ENEC, CE, CB, SAA, RCM, CCC			
	Withstanding Voltage	I/P-O/P: 3.75kV 5mA 60S			
	Insulation Resistance	I/P-O/P: >100MΩ@500Vdc			
Safety &		ENEC: EN61347-1: 2015, EN 61347-2-13: 2014/A1: 2017,			
Electromagnetic Compatibility		EN 62384: 2016/A1: 2009			
Compatibility	Safety Standards	CE-LVD: EN 61347-2-13: 2014/A1: 2017, EN 61347-1: 2015,			
		EN 62493: 2015			
		RCM: AS 61347.2-13: 2018			
		CB: IEC 61347-1: 2015, IEC61347-2-3: 2014,			
		IEC 61347-2-13: 2014/AMD1: 2016			
		CCC: GB19510.1-2009, GB19510.14-2009			
		CE-EMC/RCM: EN55015, EN61000-3-2, EN61000-3-3			
	EMI	CCC: GB/T17743, GB17625.1, GB17625.2			
	EMS	CE-EMC/RCM: EN61000-4-2, 3, 4, 5 (lightning strike 1kV), 6, 11			
		CCC: GB/T17626.2, 3, 4, 5 (lightning strike 1kV), 6, 11			
	IP Rating	IP20			
Others	RoHS	RoHS 2.0 (EU) 2015/863			
	Warranty Condition	5 yrs (Tc≤89°C)			
	It is recommended that customer should install over voltage, under voltage and surge protection devices in the power supply circuits of the light fixtures to ensure safety before connection to electricity.				
	connecting to electricity. 2. Please disconnect AC input before switching output current via the DIP switch.				
	3. The PC cover, casing, end caps and other parts of the LED driver inside the LED light fixture				
Domostico	must conform to UL94-V0 flammability standard or above.				
Remarks	4. As an accessory, the LED driver is not the only factor determining the EMC performance of the LED light fixture. The structure and the wiring of the light fixture are also relevant. Thus				
	it's strongly recommended the LED light fixture manufacturer should re-confirm the EMC of				
	the whole LED light fixture.				
	5. Unless otherwise stated, the parameters above are test results under these conditions:				
	ambient temperature 25℃, humidity 50%, 100% load, maximum output current and input voltage 230Vac.				

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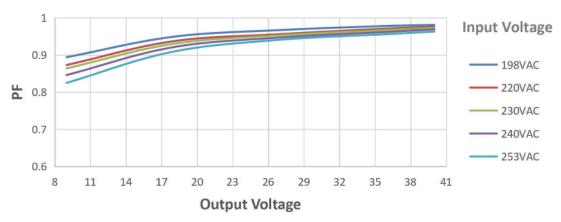
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Product Characteristic Curves

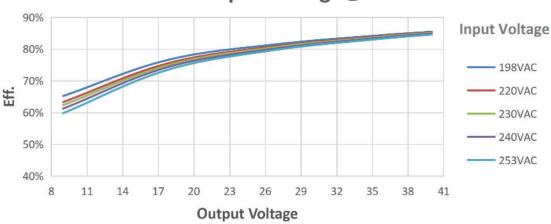
■ PF Curve



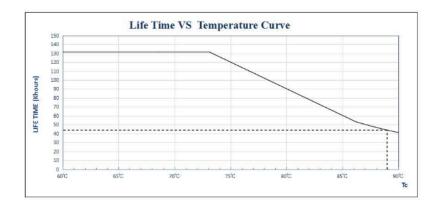


■ Efficiency Curve

Eff. VS Output Voltage@500mA

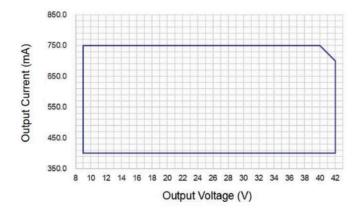


■ Lifetime Curve





■ Power 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
750mA	ON	ON	ON	ON	
700mA	ON	ON	ON	OFF	
650mA	OFF	ON	ON	ON	1 2 3 4
600mA	OFF	ON	ON	OFF	Y 4
550mA	OFF	OFF	ON	ON	ON OFF
500mA	OFF	OFF	ON	OFF	
450mA	OFF	OFF	OFF	ON	
400mA	OFF	OFF	OFF	OFF	



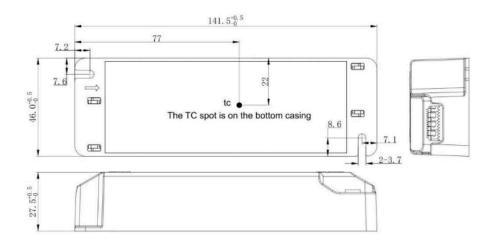
■ Triac Dimming Wiring Diagram



Label



Structure & Dimensions (unit: mm)





Packaging Specifications

Model	LF-AAT030-0750-42		
Packaging Dimensions	385*285*210 mm (L*W*H)		
Quantities	10 pcs/layer; 7 layers/ctn; 70 pcs/ctn		
Weights	0.163 kg/pc; 11.41 kg/ctn		

Transportation & Storage

■ Transportation

- Suitable transportation means: vehicles, boats and aircraft.
- During transportation, there should be awnings for rain protection and sun protection. Civilized loading and unloading are required. There should be no severe vibration or impact.

■ Storage

 Storage in accordance with the provisions of the Class I environment. For products which have been stored for more than six months, they mustn't be used until they pass the re-inspection.

Attention

- Please use this product according to its specifications otherwise there may be malfunction.
- Use light fixtures that have not been certified or are not compatible with the LED drivers may cause fire or other hazards.
- Man-made damage, any use beyond the specification and non-original-factory modification are not covered by warranty.

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Remark: The final interpretation right of the contents of this data sheet belongs to Lifud Technology Co., Ltd.

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