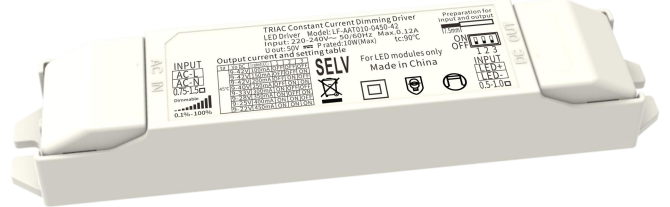


## Product Description

LF-AAT010-0450-42 is a 10W constant current flicker free LED driver with Triac dimming function. It is compatible with leading edge and trailing edge dimmers. The input voltage range is 198-264Vac. The output current can be adjusted via the DIP switch from 100mA to 450mA, 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
- 0.1% dimming depth
- Triac dimming
- Compact size
- 2-year warranty (Please refer to the warranty condition.)

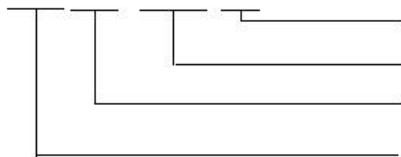


## Applications

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

## Product Naming

LF- AAT 010 - 0450- 42



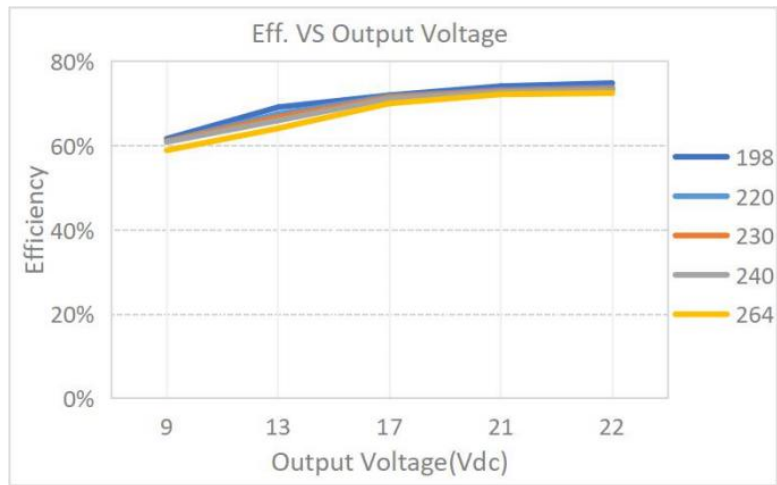
- 42: maximum output voltage of 42V
- 0450: maximum output current of 450mA
- 010: rated power of 10W
- AAT: Triac dimming LED driver series

## Electrical Characteristics

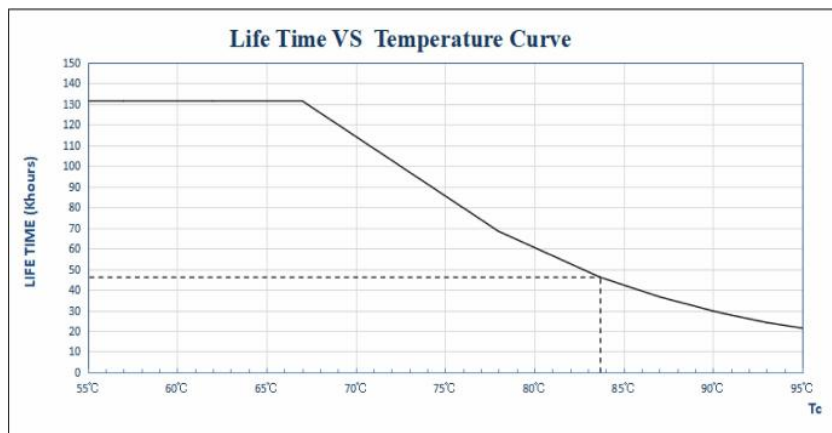
Model		LF-AAT010-0450-42							
Output	Output Voltage	9-42V	9-42V	9-42V	9-40V	9-33V	9-28V	9-25V	9-22V
	Output Current	Adjustable current via the DIP switch, please refer to the DIP Switch Table							
		100mA	150mA	200mA	250mA	300mA	350mA	400mA	450mA
	Flicker Index	IEC-Pst $\leq 1$ , CIE SVM $\leq 0.9$ , Modulation Depth $\leq 1\%$ Conforms to the flicker free standard (IEEE Std 1789-2015)							
	Current Tolerance	$\pm 10\%$			$\pm 5\%$				
	Temperature Drift	$\pm 15\%$			$\pm 10\%$				
	Startup Time	$< 1.5S@230Vac$							
Input	Input Voltage	220-240Vac (voltage limit: 198-264Vac)							
	DC Input Voltage	180-280Vdc							
	Input Frequency	47Hz-63Hz							
	Input Current	0.12A Max							
	Efficiency	$\geq 60\%$	$\geq 69\%$	$\geq 74\%$	$\geq 74\%$	$\geq 73\%$	$\geq 72\%$	$\geq 72\%$	$\geq 71\%$
Protections	Open Circuit	$< 50V$							
	Short Circuit	Hiccup Mode (auto-recovery)							
Environment Descriptions	Working Temperature	$-20^{\circ}C \sim +45^{\circ}C$							
	Working Humidity	20-90%RH (no condensation)							
	Storage Temperature/Humidity	$-30^{\circ}C \sim +80^{\circ}C$ (six months under class I environment);							
		10-90%RH (no condensation)							
Atmospheric Pressure	86KPa~106KPa								
Others	IP Rating	IP20							
	RoHS	RoHS 2.0 (EU) 2015/863							
	Warranty Condition	2 yrs ( $T_c \leq 83.7^{\circ}C$ )							
Remarks	<ol style="list-style-type: none"> <li>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 connecting to electricity.</li> <li>Please disconnect AC input before switching output current via the DIP switch.</li> <li>The PC cover, casing, end caps and other parts of the LED driver inside the LED light fixture must conform to UL94-V0 flammability standard or above.</li> <li>Unless otherwise stated, the parameters above are test results under these conditions: ambient temperature <math>25^{\circ}C</math>, humidity 50%, 100% load, maximum output current and input voltage 230Vac.</li> </ol>								

**Product Characteristic Curves**

■ **Efficiency Curve (450mA)**



■ **Lifetime Curve**



### Instructions of Dimming Operation

■ Terminals

INPUT

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

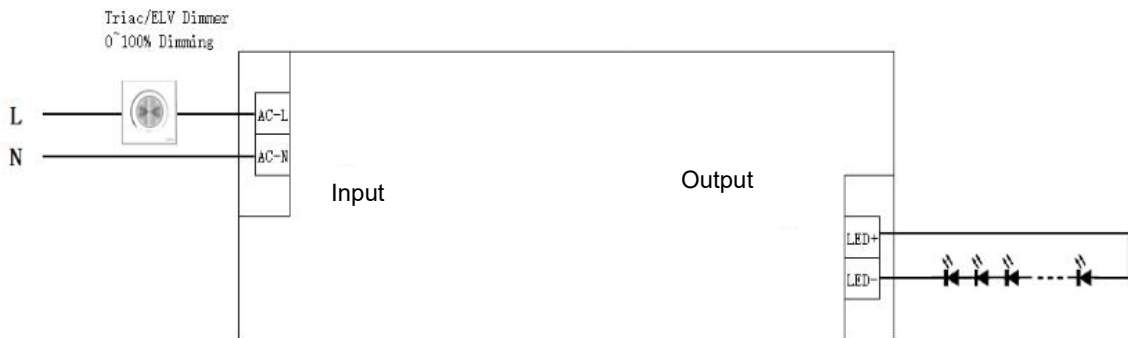
OUTPUT

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

■ DIP Switch

Vo DC	I rated (CC)	1	2	3
9-42V	100mA	OFF	OFF	OFF
9-42V	150mA	OFF	OFF	ON
9-42V	200mA	OFF	ON	OFF
9-40V	250mA	OFF	ON	ON
9-33V	300mA	ON	OFF	OFF
9-28V	350mA	ON	OFF	ON
9-25V	400mA	ON	ON	OFF
9-22V	450mA	ON	ON	ON
9-42V	100mA	OFF	OFF	OFF

■ Triac Dimming Wiring Diagram



Label

TRIAC Constant Current Dimming Driver  
LED Driver Model: LF-AAT010-0450-42  
Input: 220-240V~ 50/60Hz Max.0.12A  
U out: 50V == Prated:10W(Max) tc:90°C

Preparation for input and output  
7.5mm

ON OFF

1 2 3

INPUT

LED+  
LED-

0.5-1.0

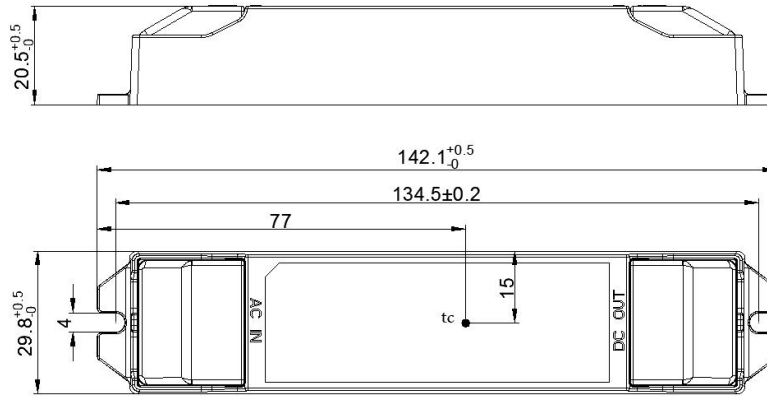
INPUT  
AC-L  
AC-N  
0.75-1.5  
Dimmable  
0.1%-100%

Output current and setting table

ta	Vo DC	I rated(CC)	1	2	3
45°C	9-42V	100mA	OFF	OFF	OFF
	9-42V	150mA	OFF	OFF	ON
	9-42V	200mA	OFF	ON	OFF
	9-40V	250mA	OFF	ON	ON
	9-33V	300mA	ON	OFF	OFF
	9-28V	350mA	ON	OFF	ON
	9-25V	400mA	ON	ON	OFF
	9-22V	450mA	ON	ON	ON
	9-42V	100mA	OFF	OFF	OFF

SELV For LED modules only  
Made in China

**Structure & Dimensions (unit: mm)**



**Packaging Specifications**

Model	LF-AAT010-0450-42
Packaging Dimensions	385*285*210 mm (L*W*H)
Quantities	14 pcs/layer; 9 layers/ctn; 126 pcs/ctn
Weights	0.058 kg/pc; 7.8±5% 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.

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