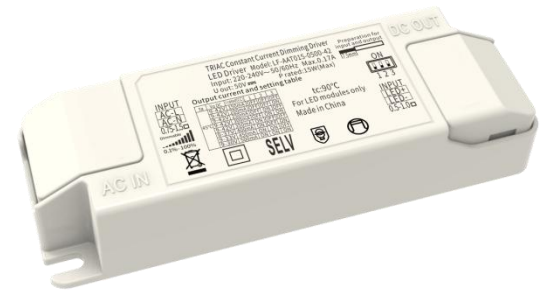


Product Description

LF-AAT015-0500-42 is a 15W 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 150mA to 500mA, 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.)

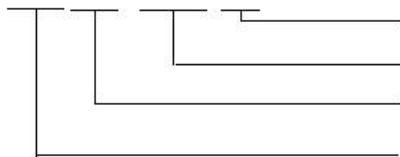


Applications

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

Product Naming

LF- AAT 015 - 0500- 42



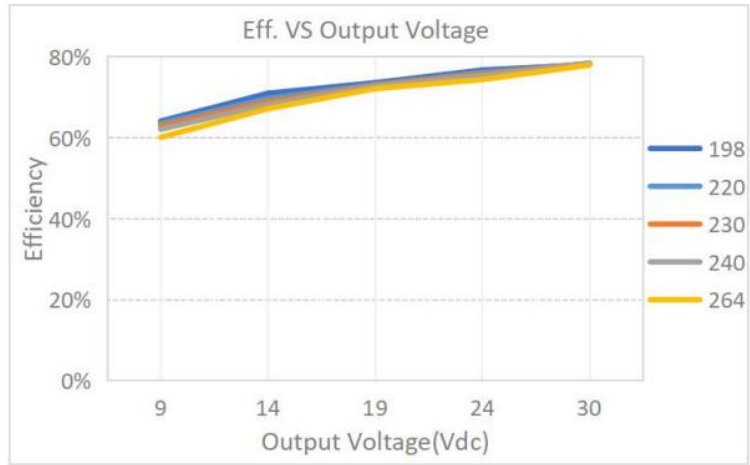
- 42: maximum output voltage of 42V
- 0500: maximum output current of 500mA
- 015: rated power of 15W
- AAT: Triac dimming LED driver series

Electrical Characteristics

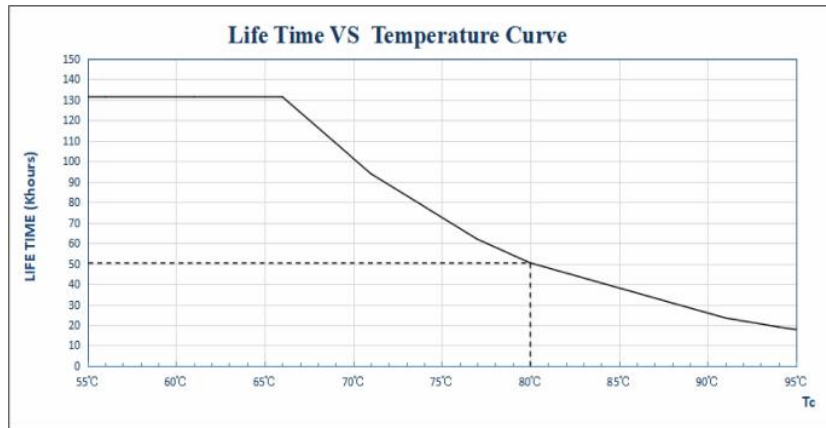
Model		LF-AAT015-0500-42							
Output	Output Voltage	9-42V	9-42V	9-42V	9-42V	9-42V	9-37V	9-33V	9-30V
	Output Current	Adjustable current via the DIP switch, please refer to the DIP Switch Table							
		150mA	200mA	250mA	300mA	350mA	400mA	450mA	500mA
	Flicker Index	IEC-Pst ≤ 1 , CIE SVM ≤ 0.9 , Modulation Depth $\leq 1\%$ Conforms to the flicker free standard (IEEE Std 1789-2015)							
	Current Tolerance	$\pm 5\%$							
	Temperature Drift	$\pm 10\%$							
	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	0.17A Max							
	Efficiency	$\geq 67\%$	$\geq 72\%$	$\geq 75\%$	$\geq 77\%$	$\geq 78\%$	$\geq 77\%$	$\geq 76.5\%$	$\geq 76\%$
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 ($T_c \leq 86^{\circ}C$)							
Remarks	<ol style="list-style-type: none"> 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. Please disconnect AC input before switching output current via the DIP switch. 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. Unless otherwise stated, the parameters above are test results under these conditions: ambient temperature $25^{\circ}C$, humidity 50%, 100% load, maximum output current and input voltage 230Vac. 								

Product Characteristic Curves

■ **Efficiency Curve (500mA)**



■ **Lifetime Curve**



Instructions of Dimming Operation

■ Terminals

INPUT

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

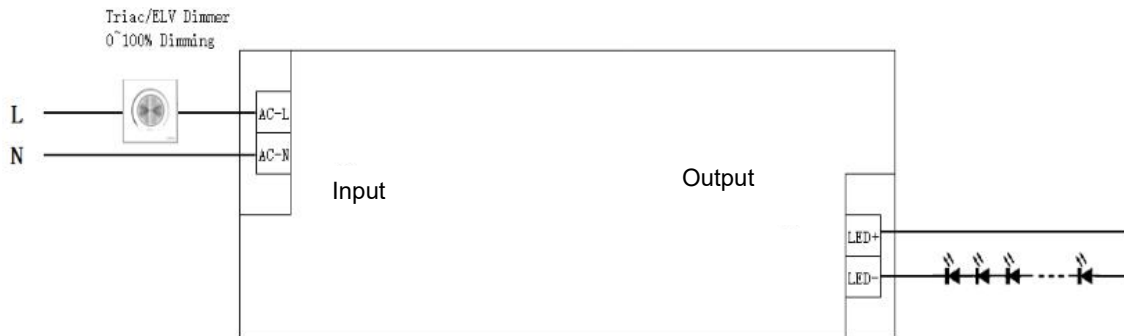
OUTPUT

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	150mA	OFF	OFF	OFF
9-42V	200mA	OFF	OFF	ON
9-42V	250mA	OFF	ON	OFF
9-42V	300mA	OFF	ON	ON
9-42V	350mA	ON	OFF	OFF
9-37V	400mA	ON	OFF	ON
9-33V	450mA	ON	ON	OFF
9-30V	500mA	ON	ON	ON

■ Triac Dimming Wiring Diagram



Label

TRIAC Constant Current Dimming Driver
LED Driver Model: LF-AAT015-0500-42
Input: 220-240V~ 50/60Hz Max.0.17A
U out: 50V= P rated:15W(Max)

Preparation for input and output
7.5mm

ON
1 2 3

INPUT
AC-L
AC-N
0.75-1.5

Dimmable
0.1%-100%

Output current and setting table

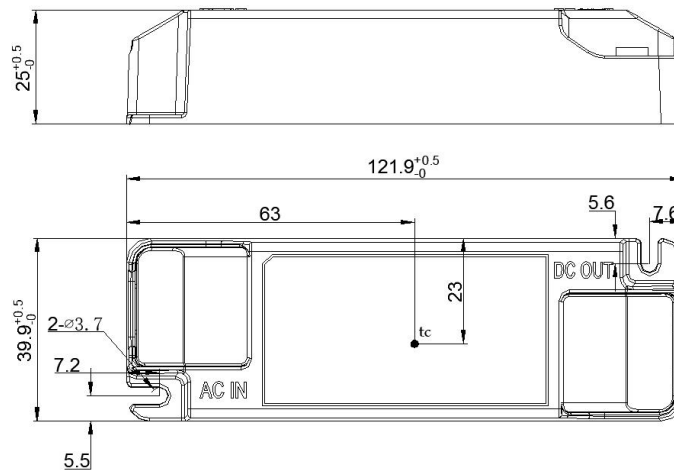
ta	Vo DC	I rated(CC)	1	2	3
45°C	9-42V	150mA	OFF	OFF	OFF
	9-42V	200mA	OFF	OFF	ON
	9-42V	250mA	OFF	ON	OFF
	9-42V	300mA	OFF	ON	ON
	9-42V	350mA	ON	OFF	OFF
	9-37V	400mA	ON	OFF	ON
	9-33V	450mA	ON	ON	OFF
	9-30V	500mA	ON	ON	ON

tc:90°C
For LED modules only
Made in China

SELV

INPUT
LED+
LED-
0.5-1.0

Structure & Dimensions (unit: mm)



Packaging Specifications

Model	LF-AAT015-0500-42
Packaging Dimensions	385*285*210 mm (L*W*H)
Quantities	14 pcs/layer; 7 layers/ctn; 98 pcs/ctn
Weights	0.082 kg/pc; 8.5±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.