

Product Description

LF-AAD008-0350-42 is an 8W constant current DALI or PUSH dimmable LED driver. Its input voltage ranges from 198 to 264Vac and output current can be adjusted via DIP switch from 100mA to 350mA, in steps of 50mA.

Features

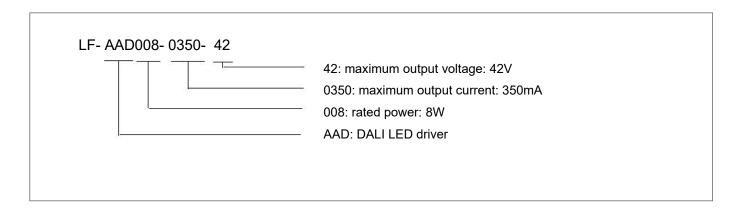
- IP20
- Suitable for Class II light fixtures
- Constant current output and output current adjustable via DIP switch
- DALI or PUSH dimmable; logarithmic or linear dimming curve selectable on DALI interface
- Built-in active PFC function
- Standby power consumption <0.5W
- 0.1% dimming depth
- 5-year warranty (please refer to the warranty condition)



Applications

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

Product Naming





Electrical Characteristics

Model		LF-AAD008-0350-42					
	Output Voltage (DC)	9-42V	9-42V	9-42V	9-32V	9-27V	9-24V
Output	Output Current	Adjustable via DIP switch; please refer to the DIP Switch Table					
		100mA	150mA	200mA	250mA	300mA	350mA
	Flicker Index	IEC-Pst ≤1, CIE SVM ≤0.9, modulation depth ≤1% Complies with the flicker-free standard (IEEE Std 1789-2015)					
	Ripple Current	<10% (rated current)					
	Current Tolerance	±5%					
	Temperature Drift	±5%					
	Start-up Time	<1.5S@230Vac					
	Input Voltage	220-240Va	c (voltage lin	nit: 198-264V	/ac)		
	DC Input Voltage	180-280Vdc					
	Input Frequency	47Hz-63Hz					
	Input Current	0.1A Max					
	Power Factor	≥0.8 ≥0.94					
	THD	≤15%@230Vac (narrowband; full load)					
laseret	Efficiency	≥74% ≥76%					
Input	Inrush Current	≤4.2A&12uS@230Vac (Max)					
	Load Quantity	Circuit Brea	aker Model	B10	C10	B16	C16
	Carried by the Circuit Breaker	Quantity (p	cs)	66	66	106	106
	Surge Protection	L-N: 1kV; PUSH: 600V					
	Leakage Current	≤0.7mA					
	Standby Power Consumption	≤0.5W (when DALI OFF signal is effective)					
Protoctions	Open Circuit	<59V					
Protections	Short Circuit	Hiccup mode (auto-recovery)					
	Working Temperature	-20℃ - +45℃					
	Working Humidity	20-90%RH (no condensation)					
Environment Descriptions	Storage	-30 $^\circ\!{\rm C}$ - 80 $^\circ\!{\rm C}$ (six months under class I environment);					
	Temperature/Humidity	10-90%RH (no condensation)					
	Atmospheric Pressure	86kPa~106	βkPa				

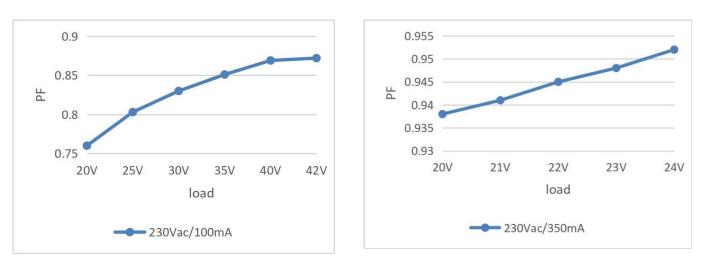


	Certifications	TUV-ENEC, CE, CB, RCM, CCC	
	Withstanding Voltage	I/P-O/P: 3.75kV 5mA 60S	
	Insulation Resistance	I/P-O/P: >100MΩ@500Vdc	
		ENEC: EN61347-1: 2015, EN 61347-2-13: 2014/A1: 2017,	
		EN 62384: 2016/A1: 2009	
	Safety Standards	CE-LVD: EN 61347-2-13: 2014/A1: 2017, EN 61347-1: 2015,	
Safety &		EN 62493: 2015	
Electromagnetic		RCM: AS 61347.2-13: 2018	
Compatibility		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	
	FMO	CE-EMC/RCM: EN61000-4-2, 3, 4, 5 (lightning strike 1kV), 6, 11	
	EMS	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 years (Tc≤84℃)	
	DALI Standard	IEC 62386-101 102 207: DALI 2.0	
	 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. When adjusting the output current via the DIP switch, please disconnect input AC power supply first so as to use the DIP switch without the input AC power supply connected. 		
Remarks	 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. 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. Unless otherwise stated, the parameters above are test results under these conditions: 		
	ambient temperature 25°C, humidity 50%, 100% load, maximum output current and input voltage 230Vac.		

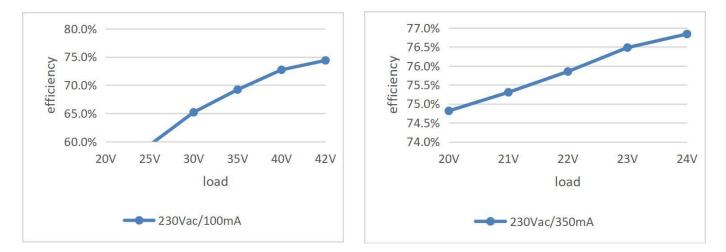


Product Characteristic Curves

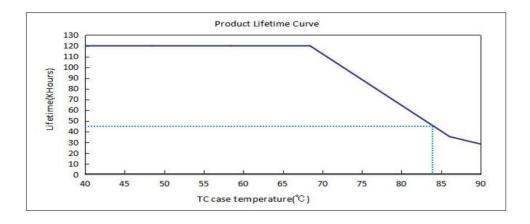
■ PF Curves



Efficiency Curves



Lifetime Curve



Dimming Operation Instructions

Product Terminals

INPUT

DA1	Input terminal of DA1 dimming	
DA2	Input terminal of DA2 dimming	
AC-L	Input terminal of AC live wire	
AC-N	Input terminal of AC neutral wire	

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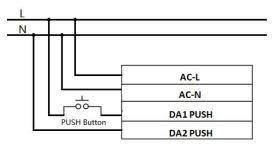
LED+	Positive electrode output of the driver
LED-	Negative electrode output of the driver

Product DIP Switch

Vo DC	I rated (CC)	1	2	3
9-24V	350mA	OFF	OFF	OFF
9-27V	300mA	OFF	OFF	ON
9-32V	250mA	OFF	ON	OFF
9-42V	200mA	OFF	ON	ON
9-42V	150mA	ON	OFF	OFF
9-42V	100mA	ON	OFF	ON

Remark: except the settings mentioned in the table above, other DIP switch settings are default to be the maximum current 350mA.

Wiring Diagram of PUSH Dimming



Remark: when using PUSH dimming function, please make sure to power on AC-L/AC-N before powering on the PUSH terminal, otherwise the PUSH terminal may be burnt out.

PUSH Dimming Operation Instructions

Operations	Operation Time	Functions
Instant Push	0.1-0.5 sec	Light on / off
Long Push	0.6-9 sec	Dim up / down
Reset Push	> 9 sec	Reset to PUSH 50% brightness

- The PUSH operation won't cause any variations if it's less than 0.1S.

- Connect the PUSH switch in series between AC-L terminal and DA1 terminal; short circuit AC-N and DA2 terminals.

- Minimum dimming depth of PUSH dimming: 1% (lout)

- The PUSH dimming mode has the memory function in case of any power failure. Power on the driver again and

the light will return to the state before the power failure.

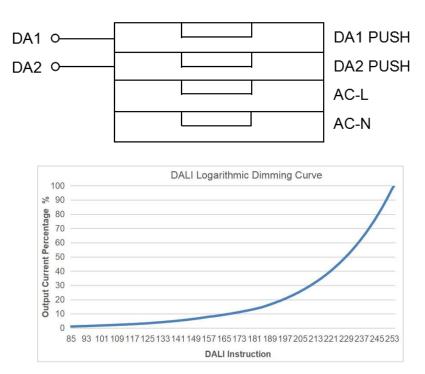
- Maximum wire length between the PUSH switch and the farthest LED driver: 135m;

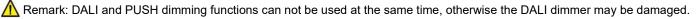
wire diameter: 16-22AWG

- Maximum quantity of LED driver connected in parallel in DALI dimming and PUSH dimming modes: 64

DALI Dimming Operation Instructions

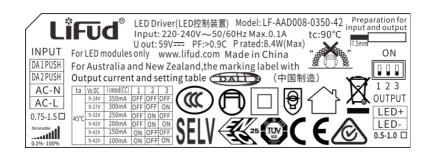
- Default setting: 100% brightness.
- Connect the DALI signal to DA1 and DA2 terminals.
- DALI protocol includes 16 groups and 64 IP addresses.
- Minimum dimming depth of DALI dimming: 0.1% (lout).



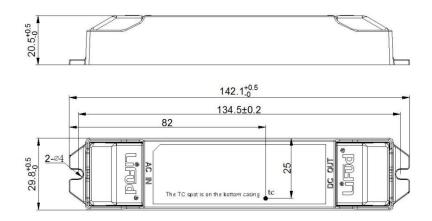




Label



Structure & Dimensions (unit: mm)



Packaging Specifications

Model	LF-AAD008-0350-42
Packaging Dimensions	385*285*210 mm (L*W*H)
Quantities	14 pcs/layer; 9 layers/ctn; 126 pcs/ctn
Weights	0.0635 kg/pc; 9 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.