Features

- Triac dimmable
- · Compatible with leading edge and trailing edge dimmers
- THD ≤20%
- Output current adjustable via DIP switch
- Flicker free; IP20
- Suitable for Class II light fixtures
- 5-year warranty (please refer to the warranty condition)



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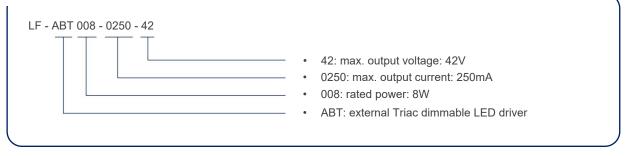
Applications

Panel light · down light · spot light

Descriptions

LF-ABT008-0250-42 is a 8W (max.) constant current Triac dimmable LED driver. Its rated input voltage ranges from 220 to 240Vac and output current is adjustable from 100 to 250mA via DIP switch with every 50mA as a step. Besides, it is compatible with leading edge and trailing edge dimmers and has all-round protections: over voltage protection and short circuit protection.

Product Model



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Electrical Characteristics

Model		LF-ABT008-0250-42							
Output	Output Voltage	25-42V		25-42V		2	5-40V		25-34V
	Output Current	100mA		150mA		A 200mA			250mA
	Flicker Index	IEC-Pst≤1, CIE SVM≤0.9, modulation depth≤1% Complies with flicker-free standard IEEE Std 1789-2015							
	Current Tolerance	±10% ±7% ±5%							
	Temperature Drift	±10%							
	Start-up Time	<2S@230Vac							
	Input Voltage	220-240Vac (voltage limit: 198-264Vac)							
	Input Frequency	0/50/60Hz							
	Input Current	0.1A max.							
	PF	≥0.9							
Input	THD	≤20% @250mA/34V							
mput	Efficiency	≥67% ≥73%			≥74%		≥74	4%	
	Inrush Current	<3.2A/35uS @230Vac							
	Loading Quantities	Model	B1	0	C10		B16		C16
	of Circuit Breaker	Quantity (pcs)	112	2	112		178		178
	Leakage Current	Current ≤0.7mA							
Protection	Open Circuit	<59V							
Characteristics	Short Circuit	No damage (auto-recovery)							
	Operating Temperature -20°C~+45°C								
Environment	Operating Humidity	20-90%RH (no condensation)							
Descriptions	Storage Temperature/ Humidity	-30°C~+80°C (6 months in Class I environment); 10-90%RH (no condensation)							
	Atmospheric Pressure	86-106kPa							

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Electrical Characteristics

	Certifications	TUV-ENEC, CE-LVD, CB, UKCA, RCM, CCC			
	Withstand Voltage	I/P-O/P: 3.75kV 5mA 60S			
	Insulation Resistance	I/P-O/P: >100MΩ@500Vdc			
Safety & EMC	Safety Standards	ENEC: EN 61347-2-13: 2014/A1: 2017 EN 61347-1: 2015/A1: 2021 EN IEC62384: 2020 CE-LVD: EN 61347-2-13: 2014/A1: 2017 EN 61347-1: 2015/A1: 2021 EN 62493: 2015 CB: IEC61347-1: 2015 IEC61347-1: 2015/AMD1: 2017 IEC61347-2-13: 2014 IEC61347-2-13: 2014/AMD1: 2016 RCM: AS 61347.2.13: 2018&AS/NZS 61347.1: 2016+A1 EN IEC55015: 2019/A11:2020 EN 61547: 2009 EN IEC 61000-3-2: 2019/A1: 2021 EN 61000-3-3: 2013/A2: 2021 CCC: GB19510.1-2009, GB19510.14-2009 UKCA-LVD: EN 61347-1: 2015/A1: 2021 EN 61347-2-13: 2014/A1: 2017 EN 62493: 2015			
	EMI	CE-EMC/RCM: EN IEC 55015: 2019/A11: 2020 EN 61547: 2009 EN IEC 61000-3-2: 2019/A1: 2021 EN 61000-3-3: 2013/A2: 2021 CCC: GB 17625.1-2012 GB/T 17743-2021 UKCA-EMC: EN IEC 55015: 2019/A11: 2020 EN 61547: 2009 EN IEC 61000-3-2: 2019/A1: 2021 EN 61000-3-3: 2013/A2: 2021			
	EMS	CE-EMC/RCM: EN61000-4-2, 3, 4, 5 (L-N: 1kV), 6, 11 CCC-EMC: GB/T17626.2, 3, 4, 5 (L-N: 1kV), 6, 11			
	IP Rating	IP20			
Other	RoHS	RoHS 2.0 (EU) 2015/863			
Parameters	Warranty	5 years (Tc≤70°C)			
	Noise Level	≤29dB (this data is measured in a soundproof room and the noise collector should be 10CM away from LED driver)			
Compatible Dimmers	Hamiton: L400/G, YIKAI: EU200P, CRESTRON SYSTEM: DIN-IDIM4, LUTRON SYSTEM: LQSE- 4A-D, HDL SYSTEM: MD0602.432, S1-K, DELIXI: Q86TGIH, MOORGEN SYSTEM, CDN				
Test Equipment	AC power source: CHROMA6530, digital power meter: CHROMA66202, oscilloscope: Tektronix DPO3014, DC electronic load: M9712B, LED board, constant temperature and humidity chamber, lightning surge generator: Everfine EMS61000-5B, rapid group pulse generator: Everfine EMS61000-4A, spectroanalyzer: KH3935, Hi-pot tester: EEC SE7440, flicker tester (flicker-free coefficient test) Everfine LFA-3000, etc.				
Test Remark	If there are no special remarks, the above parameters are tested at the ambient temperature of 25°C, humidity of 50%, full load and input voltage of 230Vac/50Hz.				

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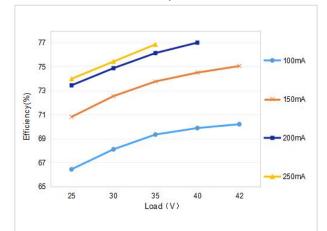
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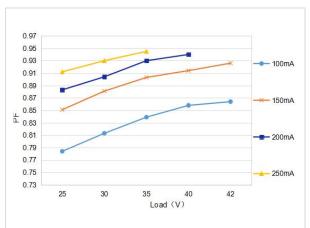
Electrical Characteristics

Additional Remarks	 It is recommended that user install the over voltage protection, under voltage protection and surge protection devices in the power supply circuits of light fixtures to ensure electricity safety. The LED driver used in combination with the end device is one of the accessories of the whole light fixture, and the EMC of the whole light fixture 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 of the whole light fixture before the whole light fixture is finished. The test conditions of the circuit breaker configuration quantity are the same as those of the inrush current. When the output voltage ranges from 32 to 42V, the 100A current tolerance is 10%.
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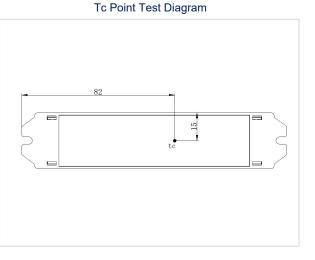
Product Characteristic Curves



Efficiency Curve



Lifetime Curve 150 140 120 120 100 90 60 50 40 30 20 10 0 _____ 35°C an'C 45°C 50°C 55°C 60°C 65°C 70°C 75°C 80°C 85°C 90°C Tc



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Product Definitions

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Product terminals

	INPUT	OUTPUT		
AC-L	AC live wire input	LED+ Positive electrode output of LED driver		
AC-N	AC-N AC neutral wire input		Negative electrode output of LED driver	

Product DIP Switch

Vo DC	I rated (CC)	1	2	3
25-34V	250mA	0N	ON	-
25-40V	200mA	-	ON	-
25-42V	150mA	ON	-	ON
25-42V	100mA	-	-	ON

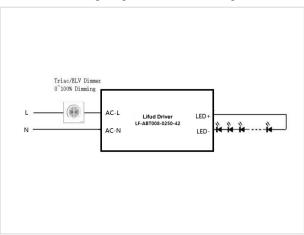
Remarks:

- 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;
- When using the DIP switch, pay attention: 250-200mA PIN3 OFF & 100-150mA PIN3 ON;
- The output current is relatively low on the condition of 200-250mA PIN3 ON.

Triac Dimming Operation Instructions

Triac Dimming Operations

- Connect AC live wire to the input of dimmer and the output wire of dimmer to AC-L;
- Connect AC neutral wire to AC-N
- Dimming range: 0-100%



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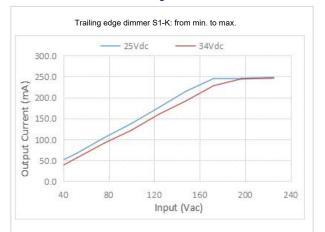
Wiring Diagram of Triac Dimming

Triac Dimming Operation Instructions



Triac Dimming Curve 1

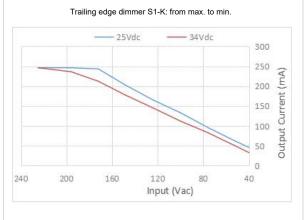
Triac Dimming Curve 3



Leading edge dimmer MD0602.432: from max. to min. - 34Vdc - 25Vdc 300 250 (mA) 200 Ou tput Current 150 100 50 0 240 200 160 120 80 40 Input (Vac)

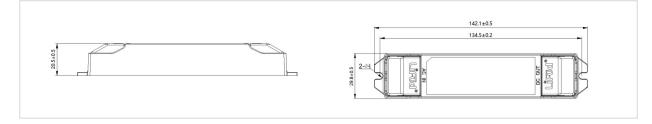
Triac Dimming Curve 2

Triac Dimming Curve 4



Structure & Dimensions (unit: mm; tolerance: ±0.5mm)

Model	Overall Appearance (L*W*H)	Distance Between 2 Positioning Holes	Diameter of Positioning Hole
LF-ABT008-0250-42	142.1*29.8*20.5 mm	134.5 mm	4 mm



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Packaging Specifications

Model	LF-ABT008-0250-42	
Carton Size	385*285*210 mm (L*W*H)	
Quantity	12 pcs/layer; 7 layers/ctn; 84 pcs/ctn	
Weight	0.070 kg/pc; 6.0 kg/ctn	

Transportation & Storage

1. 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.

2. 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.

Cautions

- 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.
- Man-made damage is beyond the scope of Lifud warranty service.

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