Features

- Supports 6-step time dimming
- Output current and parameters adjustable via NFC
- Supports CLO function
- Driver temperature guard via internal OTP protection
- All-round protection: input overvoltage, input undervoltage, open circuit, overload, over-temperature and short circuit protection
- Surge protection: L-N: 6kV; L/N-PE: 10kV
- According to Zhaga Book 13, 24, 25
- IP20; suitable for Class I/II light fixtures (IP>54)



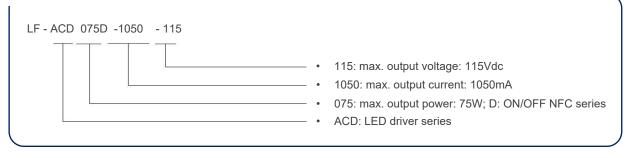
Applications

 \cdot Street lighting $\,\cdot$ tunnel lighting $\,\cdot$ indoor lighting

Descriptions

LF-ACD075D-1050-115 is a 75W (max.) NFC programmable constant current LED driver. Its rated input voltage ranges from 220 to 240Vac. Its output current is adjustable from 200 to 1050mA. It has protective features of input overvoltage, input undervoltage, output open circuit, short circuit protection and over-temperature protection.

Product Model



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Electrical Characteristics

Model			L	.F-ACD075D-105	0-115			
	Output Voltage	35-115V						
	Output Current	200-1050n	nA ^① (default: 700	mA ^②)				
Output	Ripple Current (≤100Hz)	±3.3%						
	Flicker Index	IEC-Pst≤1, CIE SVM≤0.4, according to IEEE Std 1789-2015						
	Current Tolerance	$\pm 5\%$	±5%					
	Temperature Drift	±10%						
	Start-up time	<1.5s						
	Rated Input Voltage	220-240Va	IC					
	Input Voltage Range	180-264Va	IC					
	DC Input Voltage	180-264Vc	lc [®]					
	Input Frequency	0/50/60Hz						
	Input Current	0.5A max. @AC input 0.1-0.43A@DC input						
L	PF	≥0.95						
Input	THD	<10%						
	Efficiency	≥91%						
	Inrush Current	<45A&200uS						
	Loading Quantities of	Model	B10	C10	B16	C16		
	Circuit Breaker	Quantity (pcs)	11	14	19	23		
	Leakage Current	≤3.5mA						
	Operating Temperature	-40°C~+55°C						
Environment	Operating Humidity	20-90%RH (no condensation)						
Descriptions	Storage Temperature/ Humidity	-40°C~+80	°C (6 months in C	class I environme	nt); 10-90%RH (no condensation)		
	Atmospheric Pressure	86-106kPa	l					
Surgo	L-N	6kV						
Surge	L/N-PE	10kV						

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Electrical Characteristics

	Certifications	CB, CE, ENEC, RCM, SAA, UKCA			
	Withstanding Voltage	I/P-O/P: 3.75kV&5mA&60S; I/P-PE: 1.5kV&5mA&60S; O/P-PE: 1.5kV&5mA&60S			
	Insulation Resistance	I/P-O/P: >100MΩ@500VDC; I/P-PE: >100MΩ@500VDC; O/P-PE: >100MΩ@500VDC			
Safety and EMC	Safety Standards	CB: IEC61347-1:2015, IEC61347-1:2015/AMD1:2017,IEC61347-2- 13:2014,IEC61347-2-13:2014/AMD1:2016 CE-LVD: EN 61347-2-13:2014/A1:2017, EN 61347-1:2015, EN 62493:2015 ENEC: EN61347-1:2015, EN 61347-2-13:2014/A1:2017, EN 62384: 2020 RCM: AS 61347.2-13:2018 SAA:AS 61347.1:2016+A1:2018 AS 61347.2.13:2018 UKCA-LVD: EN 61347-1:2015/A1:2021, EN 61347-2-13:2014/A1:2017 SAA:AS61347.2-13:2018			
	EMI	CE-EMC/RCM: EN55015, EN61000-3-2, EN61000-3-3 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: EN61000-4-2,3,4,5,6,11			
	IP Rating	IP20			
	RoHS	RoHS 2.0 (EU) 2015/863			
Other Parameters	Tc Max	90°C			
	Warranty Condition	8 years (Tc≤88°C)			
	Noise Level	≤25dB (The noise collector should be placed at 10cm away from the LED driver during the test in a quiet room)			
Testing Equipment	AC power source: CHROMA6530, digital power meter: CHROMA66202, oscilloscope: Tektronix DPO3014, DC electronic load: M9712B, LED board, constant temperature and humidity chamber; Everfine EMS61000-5B, fast transient generator: Everfine EMS61000-4A, spectroanalyzer: KH3935, hi-pot tester: EEC SE7440, flicker tester (flicker-free coefficient test): Everfine LFA-3000, etc.				
Testing Remark	If there are no special remarks, the above parameters are tested at the ambient temperature of 25°C, humidity of 50%, maximum output power and input voltage of 230Vac/50Hz.				

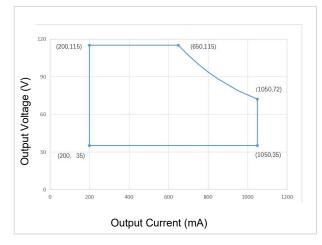
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Electrical Characteristics

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 PC cover, casing and end cap for assembling the LED driver in the light fixture must meet the fire rating of UL94-V0 or above. The total output power of the driver can not exceed the rated maximum power during use, otherwise it can not be guaranteed. The test conditions of the circuit breaker configuration quantity are the same as those of the inrush current. Lifud reserves the right to interpret any of the above parameters. Remark: When the output current is 1050mA, the load voltage of LED driver ranges from 35 to 72Vdc; when the load voltage >72Vdc, the LED driver outputs with the maximum power of 75W. Please see the chart. The default current of LED driver is 700mA and its output current can be set by FEIG NFC reader.
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Product Characteristic Curves

Working Window Curve





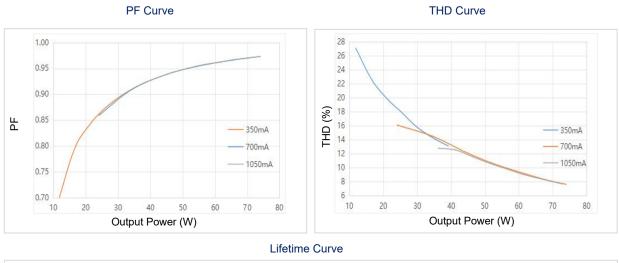
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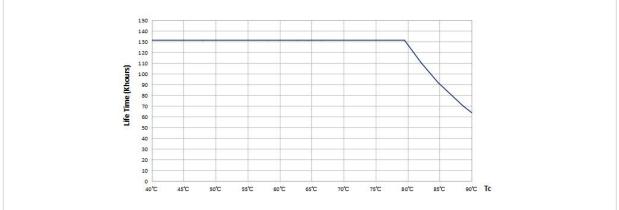
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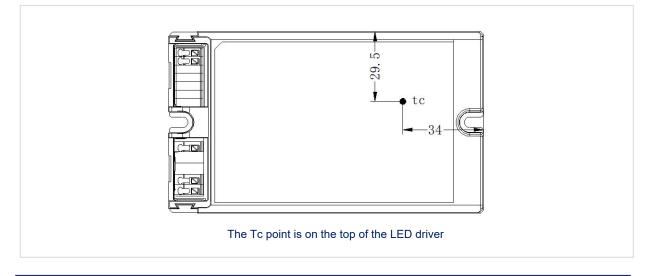
Product Characteristic Curves

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Tc Point (unit: mm)



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Protective Characteristics

	Protective Type			Min.	Тур.	Max.	Introduction
	Mode 1 t		T1 (Start to decrease the current)	80°C	85°C	90°C	When the internal temperature rises to T1, the internal thermal protection will be triggered and the output current will gradually decrease.
Internal over-		If the temperature is too high, the current will drop first and then the light will be off.	T2 (Stop decreasing the current)	83°C	88°C	93°C	When the internal temperature rises to T2, the output current will decrease to the programmed protection current value (default is 50%lo).
temperature protection			T3 (Turn off the light)	86°C	91°C	96°C	When the internal temperature rises above T3, the light will be off, and when the temperature drops below T1, the light can be automatically turned on.
	Mode 2	If the temperature is too high, the light will be off.	T3 (Turn off the light)	86°C	91°C	96°C	When the internal temperature rises above T3, the light will be off, and the AC needs to be restarted to restore the light.
	Open Circuit			<150V			
Short Circuit			Hiccup	mode (au	uto-recove	əry)	
Protective voltage			145Vac	150Vac	155Vac	When the input voltage is lower than the protective voltage, the light will be off.	

Input undervoltage	Protective voltage	145Vac	150Vac	155Vac	than the protective voltage, the light will be off.
protection	Restore voltage	156Vac	160Vac	165Vac	When the input voltage is higher than the restore voltage, the light can be automatically turned on.
Input overvoltage	Protective voltage	310Vac	320Vac	330Vac	When the input voltage is higher than the protective voltage, the light will be off.
protection	Restore voltage	261Vac	270Vac	278Vac	When the input voltage is lower than the restore voltage, the light can be automatically turned on.

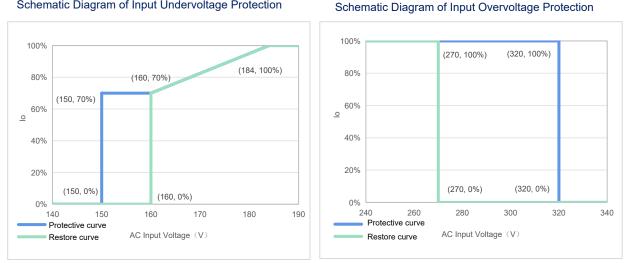
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Protective Characteristics Schematic

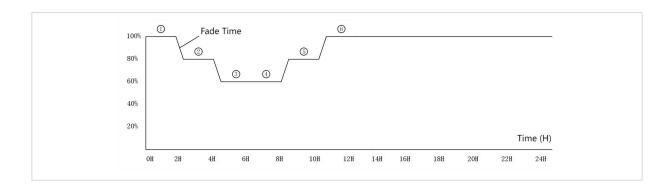
Schematic Diagram of Input Undervoltage Protection



Remark: It is not allowed to operate outside the input voltage range for a long time.

Time Dimming Introduction

Time dimming control includes 3 kinds of modes: Traditional Timer, Self Adapting-Midnight and Self Adapting Percentage. When the time dimming control starts, it will enter Traditional Timer mode by default. There are 6 segments in each mode, and you can set the brightness of each segment, the running time of the first to fifth segments, and the fade time for switching between two segments.



Traditional Timer: Follows the programmed timing curve after power on.

Self Adapting-Midnight: Automatically adjusts the dimming curve based on the on-time of each of the past 3 days (if difference <15 minutes), assuming that the center point of the dimming curve is local midnight time.

Self Adapting-Percentage: Automatically adjusts the on-time of each step by a constant percentage of the initialization time and operational use time according to the actual on-time of the past 3 days (if difference <15 mins).

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Programmer Tools and Software

Product	Name	Brand	Model	Softwares
•	NFC desktop programmer	FEIG	ID CPR30+	Lifud SmartSet
1	NFC handheld programmer	FEIG	ID ISC.PRH101-USB	Lifud SmartSet
	NFC batch programmer	FEIG	ID ISC.LRM1002-E ID ISC.ANT300/300-A	Lifud SmartSet
еника В жел В жел	Mobile NFC APP	LIFUD	1	Lifud NFC

Programmer Setting Instructions

Read/write and Parameter Configuration

Programming project	Default settings	Parameters settings	Read/Write
Product information	-	No	Read
Output current	700mA (default)	Yes	Read/Write
CLO	Inactivated	Yes	Read/Write
Time dimming	Inactivated	Yes	Read/Write
Over-Temperature Protection	Activated	Yes	Read/Write

Programmer Setting Methods

1 NFC



Note: When using the NFC reader, the driver is not allowed to operate while powered on. The driver must be powered off and completely discharged before it can read and write normally.

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2 Mobile NFC APP



Lifud	LiFud 莱福德 🗄				
	Read/Write Driver Read driver by NFC				
(((62)	Fast Read/Write Read driver by NFC				

QR Code for NFC APP Download

Note: When using the NFC app, the driver is not allowed to operate while powered on. The driver must be powered off and completely discharged before it can read and write normally.

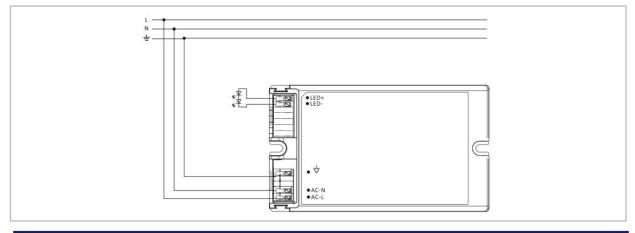
Product Terminal Definition

Product Terminals

Input			Output
\bigtriangledown	Earth wire	LED+	Positive terminal output of LED driver
NC	/	LED-	Negative terminal output of LED driver
NC	/	NC	1
AC-N	AC neutral wire input	NC	1
AC-L	AC live wire input	NC	1
1	1	NC	1
1	1	NC	1

Driver Control Instructions

Wiring Diagram



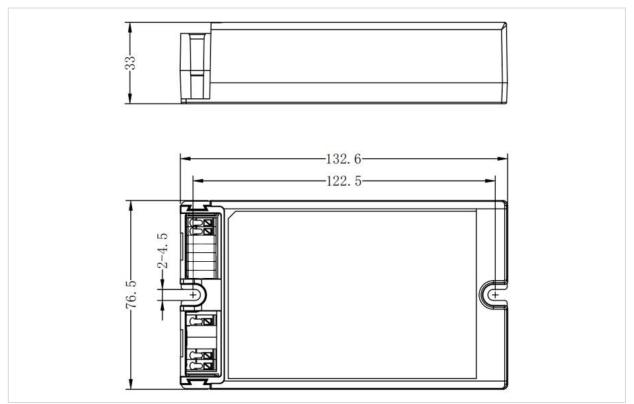
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Structure & Dimensions (unit: mm)

Model	Overall Appearance (L*W*H)	Distance Between 2 Locating Holes (L)	Diameter of Locating Hole (D)
LF-ACD075D-1050-115	132.6*76.5*33 mm (±0.5mm)	122.5 mm (\pm 0.5mm)	4.5 mm (±0.5mm)



Packaging Specifications

Model	LF-ACD075D-1050-115
Carton Size	280*217*95mm (L*W*H)
Quantity	12 pcs/layer; 1 layers/ctn; 12 pcs/ctn
Weight	$0.252{\pm}5\%$ kg /pc; $3.432{\pm}5\%$ kg /ctn

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Transportation and 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 Technology Co., Ltd. reserves the right to interpret any contents of this specification.

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