Features

- Support ON/OFF mode
- Support 6-step time dimming
- · Output current and parameters set via NFC
- Support CLO function
- Driver temperature guard via internal OTP protection
- All-round protection: input over voltage, input under voltage, opencircuit, overload, over-temperature and short-circuit protection
- Surge protection: L-N: 6kV; L/N-PE: 10kV
- Complies with Zhaga Book 13, 24, 25
- IP20; suitable for Class I/II light fixtures (IP>54)





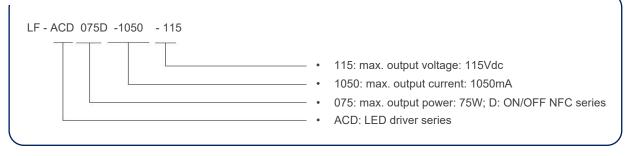
Applications

Street lighting · tunnel lighting · 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 over voltage, input under voltage, output open circuit, short-circuit protection and over temperature protection.

Product Model



Lifud Technology Co., Ltd.

Electrical Characteristics

Model		LF-ACD075D-1050-115					
	Output Voltage	35-115V					
	Output Current	200-1050mA ^① (default: 700mA ^②)					
	Ripple Current (≤100Hz)	±3.3%					
Output	Flicker Index	IEC-Pst≤1, CIE SVM≤0.4, Complies with IEEE Std 1789-2015					
	Current Tolerance	±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					
	PF	≥0.95					
Input	THD	<9%					
	Efficiency	≥91%					
	Inrush Current	<41A&177uS					
	Loading Quantities of	Model	B10	C10	B16	C16	
	Circuit Breaker	Quantity (pcs)	11	14	19	23	
	Leakage Current	<0.7mA					
	Operating Temperature	-40°C~+55°C					
Environment Descriptions	Operating Humidity	20-90%RH (no condensation)					
	Storage Temperature/ Humidity	-40°C~+80°C (6 months in Class I environment); 10-90%RH (no condensation)					
	Atmospheric Pressure	86-106kPa					
L-N 6kV							
Surge	L/N-PE	10kV					

Lifud Technology Co., Ltd.

Add.: 3AF, Block B, Xingzhan Plaza, No.446, Nanhuan Rd., Shajing St., Bao'an Dist., Shenzhen, Guangdong, China Factory I: Lifud Gardern-style Industrial Park, Tianfu New Dist., Meishan City, Sichuan, China Factory II: Lifud Intelligent Manufacture Industrial Park , Zhichuang Rd., Banfu Town, Zhongshan, Guangdong, China Website: www.lifud.com Telephone: +86(0)755 8373 9299 Email: sales@lifud.com

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≤79°C)			
	Noise Level	Section 25 dB (The noise collector should be tested at 10cm from the driver 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.				

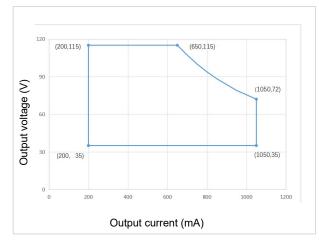
Lifud Technology Co., Ltd.

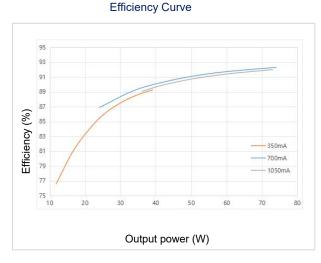
Electrical Characteristics

Additional	 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.
Remarks	5. The test conditions of the circuit breaker configuration quantity are the same as those of the inrush current.
	6. Lifud reserves the right to interpret any of the above parameters.
	Remark: ① 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.
	② The default current of LED driver is 700mA and its output current can be set by FEIG NFC reader and Lifud programmer.
	③ DC input is only for emergency.

Product Characteristic Curves







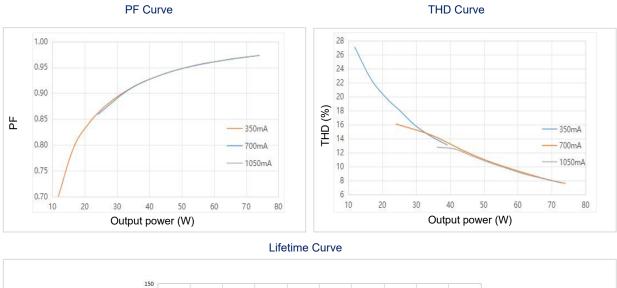
Lifud Technology Co., Ltd.

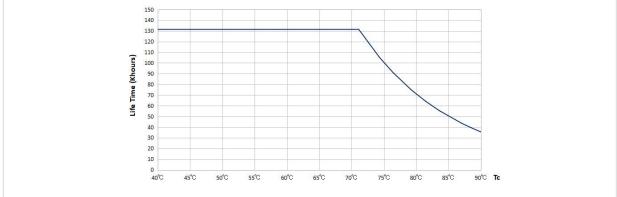
Add.: 3AF, Block B, Xingzhan Plaza, No.446, Nanhuan Rd., Shajing St., Bao'an Dist., Shenzhen, Guangdong, China Factory I: Lifud Gardern-style Industrial Park, Tianfu New Dist., Meishan City, Sichuan, China Factory II: Lifud Intelligent Manufacture Industrial Park , Zhichuang Rd., Banfu Town, Zhongshan, Guangdong, China

Factory II: Lifud Intelligent Manufacture Industrial Park , Zhichuang Rd., Banfu Town, Zhongshan, Guangdong, ChinaWebsite: www.lifud.comTelephone: +86(0)755 8373 9299Email: sales@lifud.com

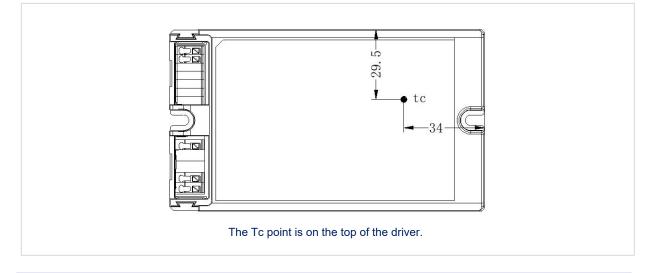
Product Characteristic Curves

Liffud 萊福德





Tc Point (unit: mm)



Lifud Technology Co., Ltd.

Lifud 辣福德

Protective Characteristics

Protective Type				Min.	Тур.	Max.	Introduction
Internal over temperature protection	Mode 1 2 2	If the temperature is too high, decrease the current first and then turn	T1 (Start to decrease the current)	82°C	85°C	88°C	When the internal temperature rises to T1, the internal thermal protection is triggered and the output current gradually decreases.
			T2 (Stop decreasing the current)	85°C	88°C	91°C	When the internal temperature rises to T2, the output current decreases to the programmed protection current value (default is 50%lo)
		off the light.	T3 (Turn off the light)	88°C	91°C	94°C	When the internal temperature rises above T3, the lights are turned off, and when the temperature drops below T1, the lights can be automatically turned on.
	Mode 2	If the temperature is too high, turn off the light.	T3 (Turn off the light)	88°C	91°C	94°C	When the internal temperature rises above T3, the lights are turned off, it needs to restart AC to turn on the light.
	Ор	en Circuit		<150V	-		
	Sho	ort Circuit		Hiccup mode (auto-recovery)			
Input under voltage		Protectiv	e voltage	145Vac	150Vac	155Vac	When the input voltage is lower than the protection voltage, turn off the light.
' Protection		Restore	Restore voltage		160Vac	165Vac	When the input voltage is higher than the recovery voltage, the light can be automatically turned on.
Input over voltage protection		Protectiv	e voltage	310Vac	320Vac	330Vac	When the input voltage is higher than the protection voltage, turn off the light.
		Restore	Restore voltage		270Vac	278Vac	When the input voltage is lower than the recovery voltage, the light can be automatically turned on.

Lifud Technology Co., Ltd.

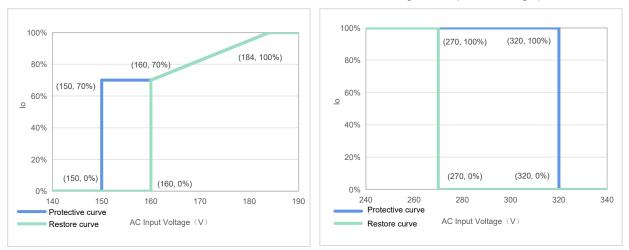
Add.: 3AF, Block B, Xingzhan Plaza, No.446, Nanhuan Rd., Shajing St., Bao'an Dist., Shenzhen, Guangdong, China Factory I: Lifud Gardern-style Industrial Park, Tianfu New Dist., Meishan City, Sichuan, China Factory II: Lifud Intelligent Manufacture Industrial Park , Zhichuang Rd., Banfu Town, Zhongshan, Guangdong, China

Factory II: Lifud Intelligent Manufacture Industrial Park , Zhichuang Rd., Banfu Town, Zhongshan, Guangdong, ChinaWebsite: www.lifud.comTelephone: +86(0)755 8373 9299Email: sales@lifud.com

Schematic diagram of input overvoltage protection

Protective Characteristics Schematic

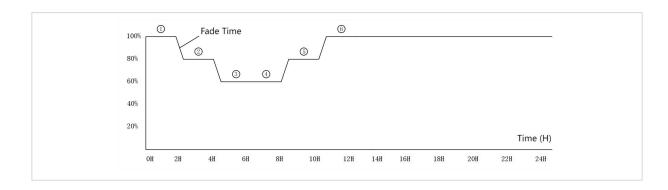




Remark: It is not allowed to operate outside the input voltage range for a long time.

Time Dimming Introduction

Time dimming control includes 3 kinds of modes, they are 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 the 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 past 3 days (if difference <15 minutes), assuming that the center point of the dimming curve is midnight local 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 for the past 3 days if difference <15 mins).

Lifud Technology Co., Ltd.

Lifud 辣福德

Programmer tools and softwares

Product	Name	Brand	Model	Softwares
•	NFC desktop programmer	FEIG	ID CPR30+	LF-NFCReader
1	NFC handheld programmer	FEIG	ID ISC.PRH101-USB	LF-NFCReader
	NFC batch programmer	FEIG	ID ISC.LRM1002-E ID ISC.ANT300/300-A	LF-NFCToMP
තා කරන	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	Product information -		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.

Lifud Technology Co., Ltd.

Add.: 3AF, Block B, Xingzhan Plaza, No.446, Nanhuan Rd., Shajing St., Bao'an Dist., Shenzhen, Guangdong, China Factory I: Lifud Gardern-style Industrial Park, Tianfu New Dist., Meishan City, Sichuan, China Factory II: Lifud Intelligent Manufacture Industrial Park , Zhichuang Rd., Banfu Town, Zhongshan, Guangdong, China

Website: www.lifud.com Telephone: +86(0)755 8373 9299 Email: sales@lifud.com

2 Mobile NFC APP



Lifud	LiFud ⁱ 莱福德 🗄		
	Read/Write Driver Read driver by NFC		
((1	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.

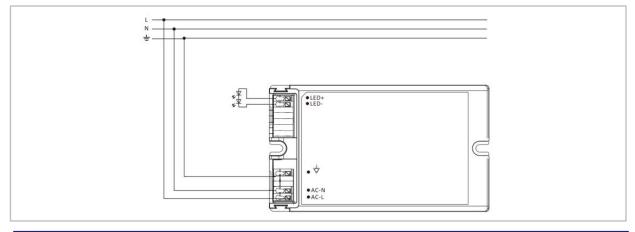
Product Terminal Definition

Product Terminals

INPUT		OUTPUT		
\bigtriangledown	Earth wire	LED+	Positive electrode output of LED driver	
NC	/	LED-	Negative electrode of LED board in series	
NC	/	NC	1	
AC-N	AC neutral wire input	NC	1	
AC-L	AC live wire input	NC	1	
1	/	NC	1	
1	/	NC	1	

Driver control instructions

Wiring diagram



Lifud Technology Co., Ltd.

Add.: 3AF, Block B, Xingzhan Plaza, No.446, Nanhuan Rd., Shajing St., Bao'an Dist., Shenzhen, Guangdong, China Factory I: Lifud Gardern-style Industrial Park, Tianfu New Dist., Meishan City, Sichuan, China

Factory II: Lifud Intelligent Manufacture Industrial Park , Zhichuang Rd., Banfu Town, Zhongshan, Guangdong, ChinaWebsite: www.lifud.comTelephone: +86(0)755 8373 9299Email: sales@lifud.com

Structure & Dimensions (unit: mm)

Model	Overall Appearance (L*W*H)	Distance Between 2 Positioning Holes (L)	Diameter of Positioning 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)
		132. 6 122. 5 (

Packaging Specifications

Model	LF-ACD075D-1050-115	
Carton Size	328*292*98mm (L*W*H)	
Quantity	12 pcs/layer; 1 layers/ctn; 12 pcs/ctn	
Weight	$0.252{\pm}5\%$ kg /pc; $3.524{\pm}5\%$ kg /ctn	

Lifud Technology Co., Ltd.

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.

Lifud Technology Co., Ltd.