

Specification

Customer's	lame:	
Product Mat	rial No. :	
Model No. :	LF-GDE030YG	
Version:	V1.1	

Customer Approval

Examined by	Reviewed by	Approved by	

LIFUD Approval

Drafted by	Reviewed by	Approved by
Lin Kaifan	Liao Xinggao	Zhong Chunlin

Full Model Numbers Required by the Customer

Full model No.	Full model No.	
Full model No.	Full model No.	

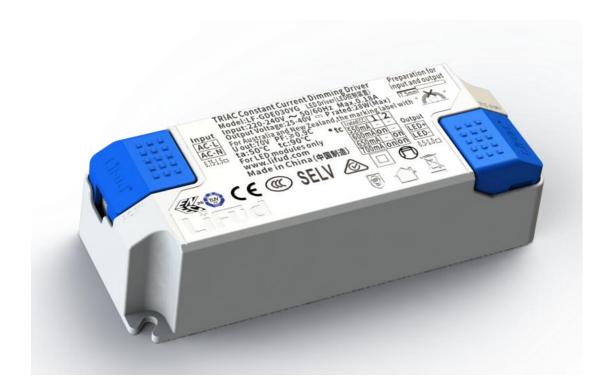
E.C. List

Version	Description of Change	R&D	Date
1.0	Formal release	Lin Kaifan	26 APR 2019
1.1	Revised some parameters	Liao Xinggao	8 JUL 2019

Lifud Technology Co., Ltd.

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1. Product Description

LF-GDE030YG series is a 30W constant current LED driver. It has Triac dimming function It's compatible with main trailing-edge dimmers in the market. Its output current is adjustable via the DIP switch, from 550mA to 700mA, 50mA per step. It has flicker free effect even during dimming, which provides comfortable lighting for users.

2. Product Features

- Constant current output. The output current can be adjusted via the DIP switch.
- Plastic casing. Suitable for Class II light fixtures
- Triac dimming
- Flicker free during dimming
- Warranty: 5 years (Please refer to the warranty condition.)
- Certificates: ENEC, CE, CB, RCM, CCC

3. Applications

- LED Down light
- LED Ceiling light



4. Electrical Characteristics

Model			LF-GD	E030YG			
Output Voltage		25-40V (Within 33-40V, the dimming effect is the best.)					
	Output Current	The output curren the DIP switch tab		via the DIP switch.	Please refer to		
	,	550mA	600mA	650mA	700mA		
Output	Ripple Voltage	<1V @20MHz					
Carpar	Current Accuracy	±6% @230VAC	±6% @230VAC				
	Temperature Drift	±10%					
	Line Regulation	±6%					
	Start-up Time	230Vac <0.5S					
	Line Regulation	±6%					
	Input Voltage	220-240VAC (volt	age limit : 198-26	4VAC)			
Input	Input Frequency	47-53Hz					
	Input Current	0.18A Max.					
	Power Factor	≥0.9@230VAC					
	THD	≤20%					
	Efficiency	≥82%@230Vac					
	Inrush Current	≤30A/350uS@230	OVAC (Max.)				
	Leakage Current	≤0.7mA					
	Stand-by Power Consumption	≤1W (without any	dimmer)				
Protective	Open Circuit Protection	≤70V (Reconnecti	ing the AC power	supply is needed.)			
Features	Short Circuit Protection	Hiccup mode (Red	connecting the AC	power supply is ne	eeded.)		
	Working Temperature	-30℃ ~ +50℃					
Environment	Working Humidity	20-90%RH (no condensation)					
Conditions	Storage Temperature/Humidity	-40°C ~ 80°C (six months under class I environment); 10-90%RH (no condensation)					
	Atmospheric Pressure	86-106KPa					
	Certificates	ENEC, CE, CB, R	CM, CCC				
	Withstanding Voltage	I/P-O/P: 3.75KV, 5mA, 60s					
	Insulation Resistance	I/P-O/P: 500VDC,	>100MΩ				
Safety & Norms	Surge Rating	IEC61000-4-5 (L-	N: 1KV)				
-	Safety Standard	EN61347, GB195	10				
	EMI	EN55015, EN61000-3-2					
	EMS	EN61000-4-2, 3, 4	4, 5, 6, 8, 11; EN6	1547			



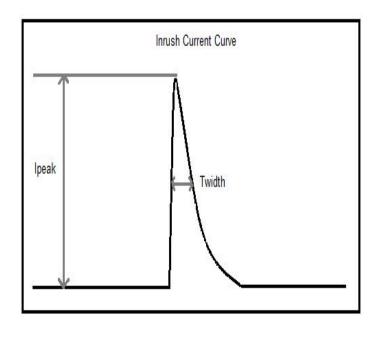
Others	IP Rating	IP20		
Others	Warranty Condition 5 years (Tc ≤ 87 °C)			
Testing Equipment	AC power source: CHROMA6530, digital power meter: CHROMA66202, Oscilloscope: Tektronix DPO3014, DC electronic load: M9712B, LED board, constant temperature and humidity chamber, lightning surge generator: Everfine EMS61000-5B, rapid group pulse generator: Everfine EMS61000-4A, spectrum analyzer: KH3935, hi-pot tester: TH9201B, light flicker analyzer: LFA-3000, etc.			
Testing Conditions	Unless otherwise stated, the parameters of the power factor and efficiency are the test results under the ambient temperature of 25℃ and humidity of 50%, AC input of 230V and 90% load. The tests above were without connecting any dimmer.			
	It is recommended that customers should install overvoltage and undervoltage prodevices and surge protection devices in the power supply circuits of the light fixtures to safety before connecting to electricity.			
Remarks	2. The PC cover, casing, end caps and other parts of the LED driver inside the LED light must conform to UL94-V0 flammability standard or above.			
3. As an accessory, the LED driver is not the only factor determining the EMC performance the LED light fixture. The structure and the wiring of the light fixture are also relevant strongly recommended the LED light fixture manufacturer should re-confirm the EN whole LED light fixture.				

5. Circuit Breaker & Relevant Parameters

Name	Value	Remark
Surge peak current (Ipeak)	6.3 A	Input voltage 230Vac
Surge half-peak time (Twidth)	150 us	Input voltage 230Vac, measure the time for Ipeak to drop to the half value.
Quantity of the same model driver that a type-B 16A circuit breaker can configure.	53 pcs	

This table shows the reference data of other types of circuit breakers.

type	rank	relative driver quantities
	10A	33 pcs
	13A	42 pcs
В	16A	53 pcs
	20A	66 pcs
	25A	82 pcs
	10A	55 pcs
	13A	71 pcs
С	16A	89 pcs
	20A	110 pcs
	25A	137 pcs

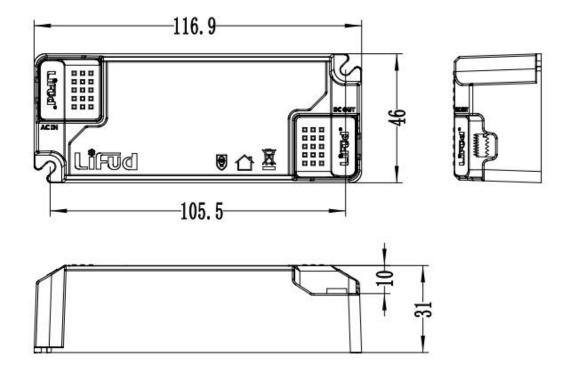




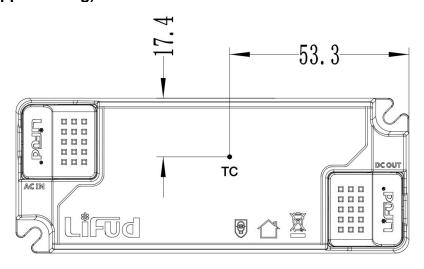
6. DIP Switch Table

	DIP switch table				
Та	Vo DC	Current	1	2	
50℃	25-40V	700mA	ON	ON	
		650mA	ON	_	
		600mA	_	ON	
		550mA	_	_	

7. Dimensions (unit: mm, tolerance: +0.5mm)



8. TC Spot (on the upper casing)

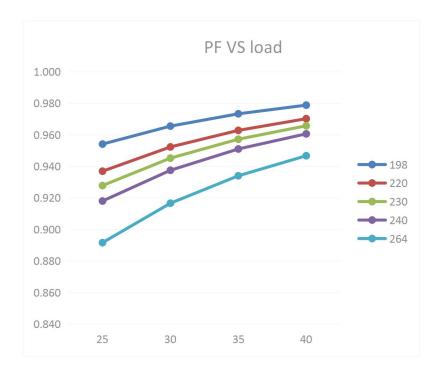




9. Packaging Specifications

LF-GDE030YG			
packaging dimensions 385*285*210mm (L*W*H)			
quantities 12 pcs/layer; 72 pcs/ctn			
weights 0.089 kg±5%/pc; 8.95 kg±5%/ctr			

10. Product Feature Curves

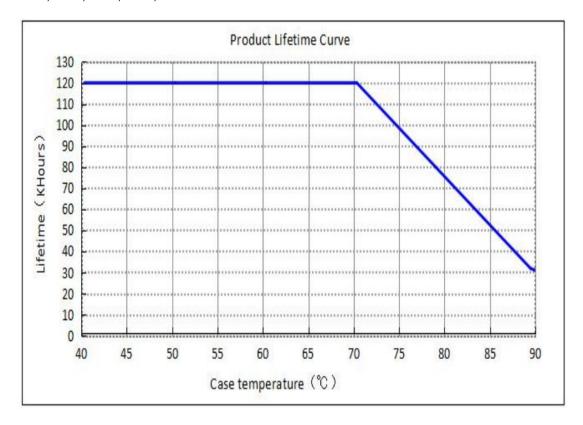




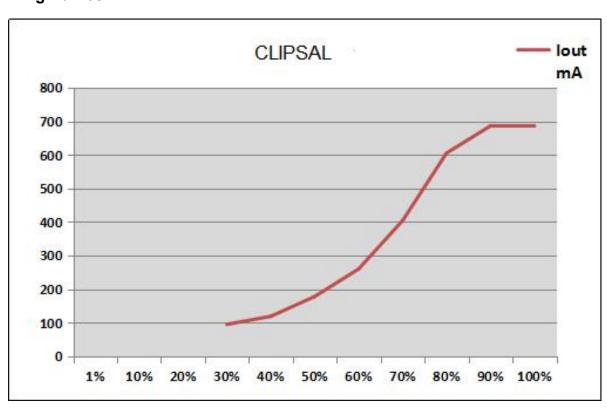


11. Lifetime Curve

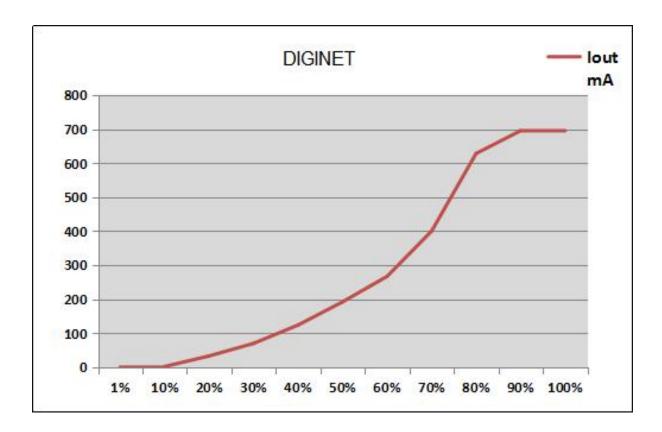
The curve below illustrates the driver's lifetime data when the its max. case temperature in an airtight space reaches 40° , 50° , 60° , 70° , 80° and 90° .



12. Dimming Curves







1. Verified by the LIFUD team, this driver is compatible with these dimmers:

·CLIPSAL: 32E450UDM ·DIGINET: MEDM

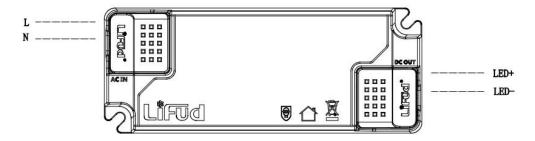
When starting up with a dimmer connected, there will be output current overshooting. The overshooting amplitude is shown as below. (Please choose proper LEDs according to their specifications. Feel free to contact LIFUD team for technical support.)

Output Valtage		Output C	urrent	
Output Voltage	550mA	600mA	650mA	700mA
25-33V start-up overshooting amplitude	≤30%	≤30%	≤30%	≤30%
33-40V start-up overshooting amplitude	≤10%	≤10%	≤10%	≤10%

- 2. If end users do not use the dimmers mentioned above, it's necessary to test if the end users' dimmers are compatible with this driver. End users can conduct the test by themselves or they can send the dimmers to LIFUD team and LIFUD team will conduct the tests for them.
- 3. The signature of on this specification indicates that the customer has confirmed that this LIFUD driver is compatible with their dimmer. And thus LIFUD will not be responsible for any quality complaint caused by incompatible dimmers.



13. Wiring diagram



14. Label



Remark: The final interpretation right of the contents of this data sheet belongs to Lifud Technology Co., Ltd.