### SPECIFICATION FOR APPROVAL

Customer:									
<b>Product Material</b>	No.:								
Model No	LF-GDE042Y	F							
Version :	Version: V3.2								
Manufacturer:	Sichuan Ledfriend Technol	ogy Co., Ltd							
Customer Approval									
Tested by	Checked by	Approved by							
Ledfriend Approval		1							
Tested by	Checked by	Approved by							
The full model numbers red	quired by customers								
Full model No.	Full model No.								
Full model No.	Full model No.								

### E.C. List

Version	Description of change	Engineer	Date		
3.0	format change	Tian Qiao	2016-1-25		
3.1	ENEC added	Tian Qiao	2016-6-2		
3.2	Dimming curve is revised	Liao Xinggao	2017-9-28		

Shenzhen Ledfriend Optoelectronics Co., Ltd.

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### 1. Product description



Isolated LED driver designed for class II LED luminaires. Category: 0-10V/PWM plastic case dimmable version.

Product properties: active PFC, high PF, high efficiency, low THD, 0-10V/PWM dimmable. Application: commercial, residential and decorative lighting.

Warranty: 5 years (please refer to the warranty condition).

#### **Certifications:**









#### 2. Technical data

	Full model number	LF-GDE042YF 0800U	LF-GDE042YF 0900U	LF-GDE042YF 0950U	LF-GDE042YF 1000U	LF-GDE042YF 1050U					
	Output voltage	27-42 VDC	27-42 VDC	27-42 VDC	27-42 VDC	27-40 VDC					
	Output current	800mA	900mA	950mA	1000mA	1050mA					
	Ripple current	< 400mA									
Output	Ripple voltage	<4.2V									
	Current tolerance	±5%									
	Time to light	100Vac<1S 230Vac <0.5S 277ac <0.5S									
	Temperature drift	±10%									
	Output Line regulation	±5%									
	Input Line regulation ±5%										
	Rated input voltage	100-240 Vac, 277	Vac (Max input volta	ige: 90-305Vac)							
	Frequency	47Hz-63Hz									
	Input current	0.6A Max									
		≥0.98/100Vac	≥0.98/100Vac	≥0.98/100Vac	≥0.98/100Vac	≥0.98/100Vac					
	Power factor	≥0.94/230Vac	≥0.94/230Vac	≥0.95/230Vac	≥0.95/230Vac	≥0.95/230Vac					
_		≥0.90/277Vac	≥0.90/277Vac	≥0.90/277Vac	≥0.90/277Vac	≥0.90/277Vac					
Input	THD	≤20%	≤20%	≤20%	≤20%	≤20%					
		≥84%/100Vac	≥84%/100Vac	≥84%/100Vac	≥84%/100Vac	≥84%/100Vac					
	Efficiency	≥85%/230Vac	≥85%/230Vac	≥86%/230Vac	≥86%/230Vac	≥86%/230Vac					
		≥84%/277Vac	≥84%/277Vac	≥85%/277Vac	≥85%/277Vac	≥85%/277Vac					
	In-rush current (peak /duration)	I<60A/350uS@230Vac									
	Typ. power input on stand-by	Pin<1W									
Protective	No-load	Max. output voltage (no-load voltage) 55V									
features	Short-circuit	Hiccup mode (auto-recovery)									
	Working temperature	-30°C - +50°C									
Environment	Working humidity	20-90%RH (no condensation)									
condition	Storage temperature/humidity	-40°C ~ +80°C (6 months under the class I environment); 10-90%RH (no condensation)									
	Atmospheric pressure	86-106KPa									
	Certifications	TUV, RCM, CE, C	В								
	Hi-pot test	I/P-O/P: 4KVac,	<5mA, 60S								
Safety and	Insulation resistance	I/P-O/P: 500VDC,	>100MΩ								
norms	Surge level	Comply with IEC6	1000-4-5(L/N: 1KV)	)							
	EMI	Comply with EN55	5015, EN61000-3-2.								
	EMS	Comply with EN61	000-4-2, 3, 4, 5, 6, 8	, 11; EN61547.							
	Packing (weight)	Net weight: 185g± xWxH).	5%/pc; 30pcs/carton	; 6.5KG±5%/carton.	Carton size: 39 x 29	x 21 cm (L					
Others	IP level	IP20									
	Warranty condition	5 years (Max. case temperature must not exceed 70°C).									

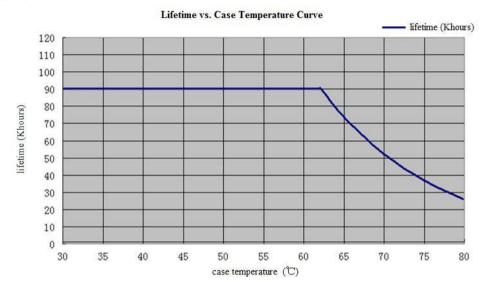
Model	LF-GDE042YF	Series	0-10V/PWM plastic case dimmable series
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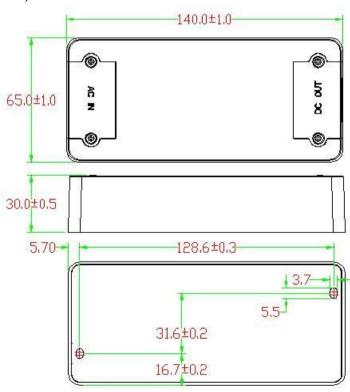
Testing equipment	AC power source: CHROMA6530, digital power meter: CHROMA66202, Oscilloscope: Tektronix DPO3014, DC electronic load: M9712B, LED board, constant temperature and humidity chamber, lightning surge generator: Everfine EMS61000-5B, rapid group pulse generator: Everfine EMS61000-4A, spectroanalyzer: KH3935, hi-pot tester: TH9201B, flicker-free tester (flicker-free coefficient tester) 60N-01, etc.
<b>Test conditions</b>	The parameters above including the power factor, THD, efficiency are all tested under the ambient temperature 25°C and humidity 50%, AC input 230V and 90% output load.
Additional Remark	<ol> <li>In the power supply circuit, it is recommended that the customer should install an over-under-voltage protection and surge protection device to ensure the safety of using electricity.</li> <li>The PC cover, shell, end caps used together with the LED driver inside the LED lamp must meet the UL94V-0 fire rating level or above.</li> <li>As a part of the LED lamp, the LED driver is not the only factor determining the EMC performance of the LED lamp. And the EMC performance is also related to the LED lamp's structure and the wire routing. Thus we strongly recommend the manufacturer of the finished LED lamp must re-confirm the EMC of the LED lamps.</li> </ol>

### 3. Product Referenced Lifetime Curve

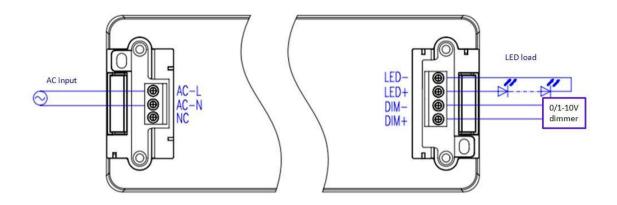
The curve below illustrates the driver's lifetime data when the LED driver's Max. case temperature reaches 40°C, 50°C, 60°C, 70°C and 80°C.



### 4. Dimensional Drawing (unit: mm)



### 5. Wire Connection Diagram:



### 6. Dimmable feature

1) 0-10V dimmable, dimming range 10%~100% (the LED lights might flicker when the voltage signal is with the 0-1V range).

voltage signal	0	1	2	3	4	5	6	7	8	9	10	OPEN
output current	0%	6.5%	18%	29%	38%	47%	55%	65%	76%	87%	100%	100%
percentage												

2) PWM dimmable, dimming range 10~100%, the voltage amplitude is 10V and the frequency of PWM signal is 500Hz~5KHz.

PWM signal	0	1	2	3	4	5	6	7	8	9	10	OPEN
output current	0%	6.5%	18%	29%	38%	47%	55%	65%	76%	87%	100%	100%
percentage												

Remark: the output current percentages above are typical values.