

SPECIFICATION FOR APPROVAL

Customer: _____

Product Material No. : _____

Model No. _____ **LF-GDE042YF(S)** _____

Version : _____ **V3.1** _____

Manufacturer: _____ **Sichuan Ledfriend Technology Co., Ltd** _____

Customer Approval

Tested by	Checked by	Approved by

Ledfriend Approval

Tested by	Checked by	Approved by

The full model numbers required 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	2015-11-11
3.1	ENEC added	Tian Qiao	2016-6-2

Shenzhen Ledfriend Optoelectronics Co., Ltd.
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 Shenzhen, China 518126
 www.lifud.com, China service hotline: 400-096-6815 (China technical support: 13410244507)

Model	LF-GDE042YF(S)	Series	AC100-277V DALI dimmable plastic case
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1. Product description



Isolated LED driver suitable for class II LED luminaires.

Category: AC100-277V DALI dimmable plastic case series.

Product properties: active PFC, high PF, low THD, DALI dimmable.

Application: commercial, residential and decorative lighting.

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

Certifications:



2. Technical data

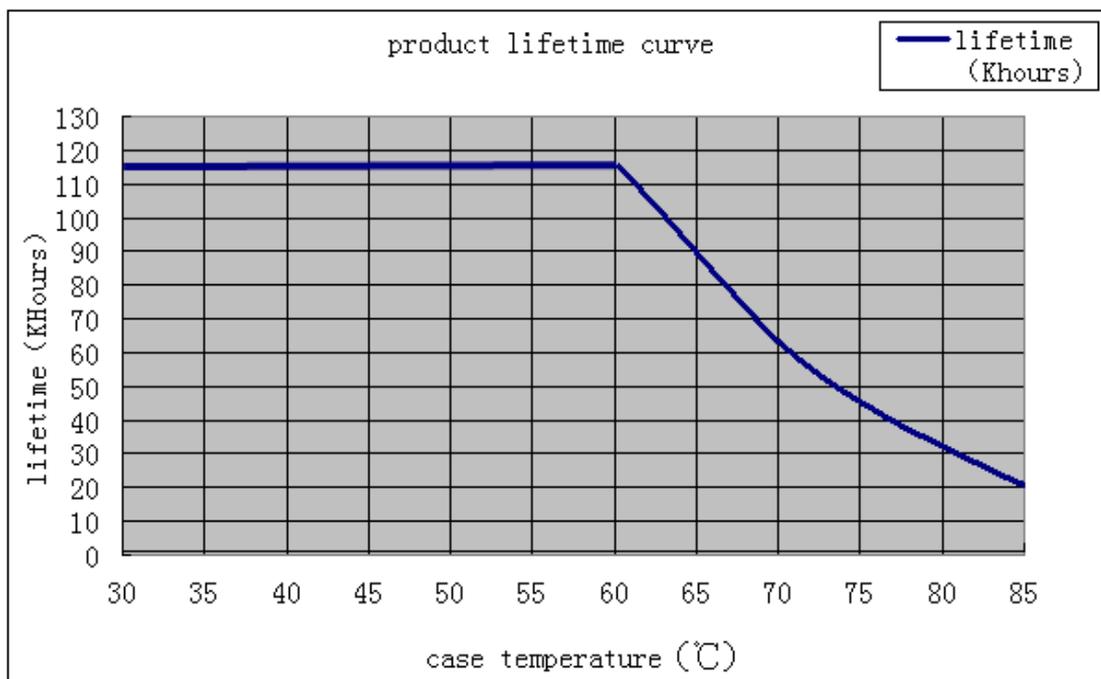
	Full model number	LF-GDE042YF (S)0800U	LF-GDE042YF (S)0900U	LF-GDE042YF (S)0950U	LF-GDE042YF (S)1000U	LF-GDE042YF (S)1050U
Output	Output voltage	27-42 VDC	27-42 VDC	27-42 VDC	27-42 VDC	27-42 VDC
	Output current	800mA	900mA	950mA	1000mA	1050mA
	Ripple current	≤500mA				
	Ripple voltage	≤4.2V				
	Current tolerance	±5%				
	Time to light	100Vac <1S, 230Vac <0.5S, 277Vac <0.5S				
	Temperature drift	±10%				
	Output Line regulation	±5%				
Input	Input Line regulation	±5%				
	Rated input voltage	100-240 Vac, 277 Vac (Max. input voltage: 90-305Vac)				
	Frequency	47Hz-63Hz				
	Input current	0.6A Max				
	Power factor	≥0.98/100Vac	≥0.98/100Vac	≥0.98/100Vac	≥0.98/100Vac	≥0.98/100Vac
		≥0.95/230Vac	≥0.95/230Vac	≥0.95/230Vac	≥0.95/230Vac	≥0.95/230Vac
		≥0.90/277Vac	≥0.90/277Vac	≥0.90/277Vac	≥0.90/277Vac	≥0.90/277Vac
	THD	≤20%				
	Efficiency	≥84%/100Vac	≥84%/100Vac	≥84%/100Vac	≥84%/100Vac	≥84%/100Vac
		≥83%/230Vac	≥83%/230Vac	≥84%/230Vac	≥85%/230Vac	≥85%/230Vac
≥83%/277Vac		≥83%/277Vac	≥84%/277Vac	≥85%/277Vac	≥85%/277Vac	
In-rush current (peak /duration)	I<60A/350uS@230Vac					
Typ. power input on stand-by	Pin<1W					
Protective features	No-load	Max. output voltage (no-load voltage) 55V				
	Short-circuit	Hiccup mode (auto-recovery)				
Environment condition	Working temperature	-30°C ~ +50°C				
	Working humidity	20-90%RH (no condensation)				
	Storage temperature/humidity	-40°C ~ +80°C (6 months under the class I environment); 10-90%RH (no condensation)				
	Atmospheric pressure	86-106KPa				
Safety and norms	Certifications	ENEC, TUV_GS, CE, CB, RCM, SAA				
	Hi-pot test	I/P-O/P: 4KVac, <5mA, 60S				
	Insulation resistance	I/P-O/P: 500VDC, >100MΩ				
	Surge level	Comply with IEC61000-4-5(L/N: 1KV)				
	EMI	Comply with EN55015, EN61000-3-2.				
	EMS	Comply with EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547.				
	DALI protocol	Comply with the IEC62386-101, 102, 207				
Others	Packing (weight)	Net weight: 185g±5%/pc;30pcs/carton; 6.5KG±5%/carton. Carton size: 39 x 29 x 21 cm (L xWxH).				
	IP level	IP20				
	Warranty condition	5 years (Max. case temperature must not exceed 70°C).				

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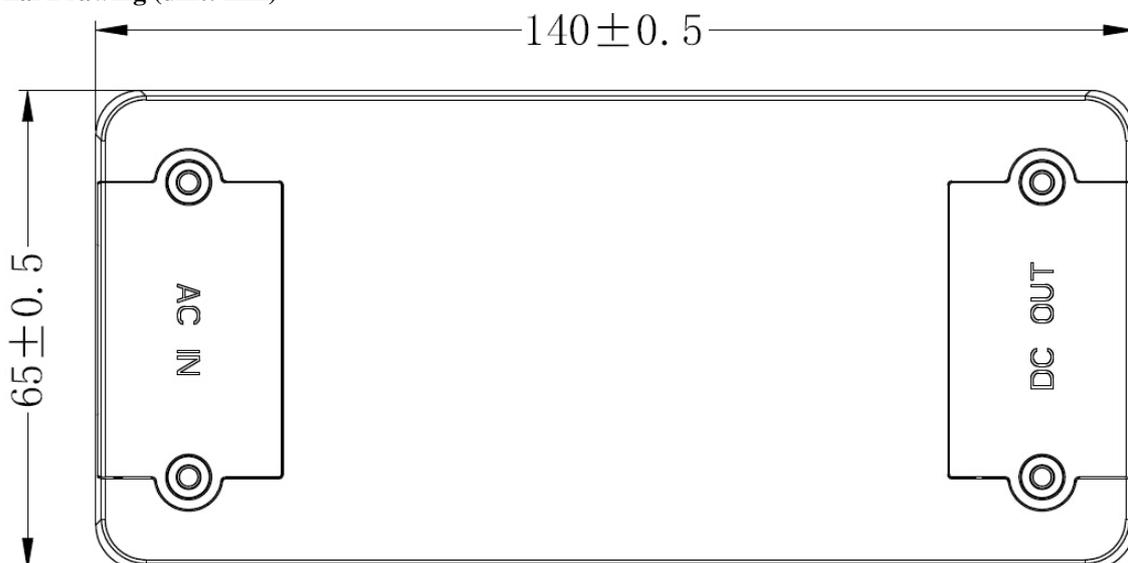
Testing equipment	AC power source: CHROMA6530, digital power meter: CHROMA66202, Oscilloscope: Tektronix DPO3014, DC electronic load: M9712B, LED board, constant temperature and humidity chamber, lightning surge generator: Everfine EMS61000-5B, rapid group pulse generator: Everfine EMS61000-4A, spectroanalyzer: KH3935, hi-pot tester: TH9201B, flicker-free tester (flicker-free coefficient tester) 60N-01, etc.
Test conditions	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 style="list-style-type: none"> 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. 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. 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.

3. Product Referenced Lifetime Curve

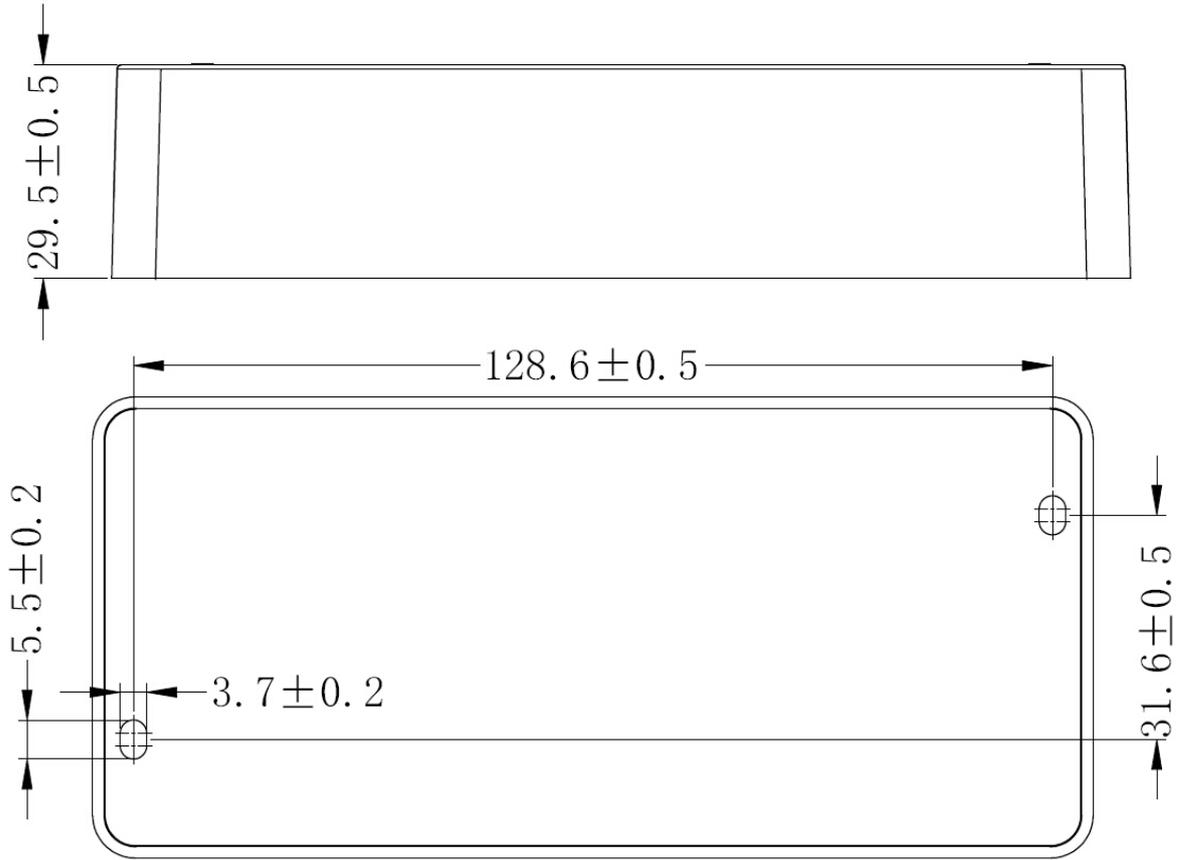
The curve below illustrates the driver's lifetime data when the LED driver's Max. case temperature reaches 40°C, 50°C, 60°C, 70°C, 80°C, 90°C.



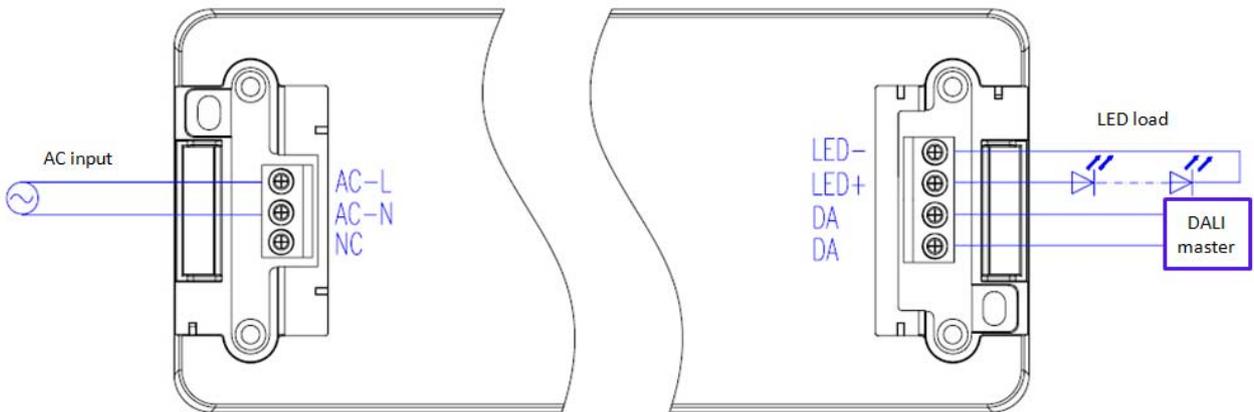
4. Dimensional Drawing (unit: mm)



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5. Wire Connection Diagram:



6. DALI Dimming Function

Dimming function for output current adjustment (Typical), dimming range 10%~100% (can be switched off)

DALI signal (%)	0	10	20	30	40	50	60	70	80	90	100	OPEN
Output current	0	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%-105%

Remark: the output currents above are typical values.

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