

Product Description

LF-GSD015YE is a 15W constant current DALI or PUSH dimmable LED driver. Its input voltage ranges from 198 to 264Vac and output current is adjustable via DIP switch from 100mA to 350mA with every 50mA as a step.

Features

- DALI or PUSH dimmable (logarithmic or linear dimming curve selectable on DALI interface)
- IP20
- Metal casing; suitable for Class I light fixtures
- Constant current output and output current adjustable via DIP switch
- Built-in active PFC function
- Standby power consumption <0.5W
- 0.1% dimming depth
- 5-year warranty (please refer to the warranty condition)

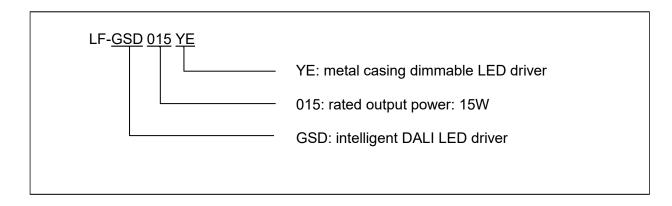


- Horticultural lighting
- Indoor office lighting
- Decorative lighting
- Commercial lighting
- Residential lighting





Product Naming





Electrical Characteristics

Model			LF-GS	5D01	15YE (0.′	1% dimming	depth)				
	Output Voltage	25-40V									
	Output Current	The output current can be adjusted via DIP switch. Please refer to the DIP switch table.									
	•	100mA	150mA	2	200mA	250mA	300mA	350mA			
Output	Flicker Index	IEC-Pst≤1, CIE SVM≤0.4, Modulation Depth≤1% Complies with the flicker-free standard (IEEE Std 1789-2015)									
	Ripple Current	<10% (rated current)									
	Current Tolerance	±5%									
	Temperature Drift	±10%									
	Start-up Time	<1.4S@23	0Vac								
	Input Voltage	220-240Va	c (voltage lin	nit :	198-264	Vac)					
	DC Input Voltage	310-340Vd	c (voltage lin	nit :	280-374	Vdc)					
	Input Frequency	47-63Hz									
	Input Current	0.1A max.									
	Power Factor	≥0.75	≥0.83	≥0	.87	≥0.90	90 ≥0.92				
	THD	≤15%									
Input	Efficiency	≥72.5%	≥76%	≥8	80%	≥82%	≥82.5%	≥83.5%			
	Inrush Current	≤60A/350u	≤60A/350uS@230Vac (max.)								
	Load Quantity Carried	Circuit Breaker Model			B10	C10	B16	C16			
	by the Circuit Breaker	Quantity (pcs)			66	66	66 106				
	Surge Protection	L-N: 1kV; L	L-N: 1kV; L-N-GND: 1.5kV; PUSH: 600V								
	Leakage Current	≤0.7mA	≤0.7mA								
	Stand-by Power Consumption	≤0.5W (when DALI OFF signal is effective)									
Protective	Open-Circuit Protection	<55V									
Features	Short-Circuit Protection	Hiccup mo	de (auto-reco	over	у)						
	Operating Temperature	-30℃ - +50	-30 ℃ - +50℃								
Environment	Operating Humidity	20-90%RH (no condens			ation)						
Conditions	Storage Temperature/Humidity	-30℃ - 80℃(six months under class I environment); 10-90%RH (no condensation)					ent);				
	Atmospheric Pressure	86-106kPa									

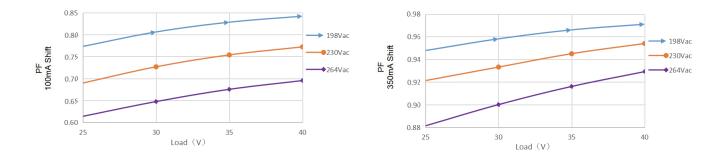


	Certifications	TUV-ENEC, CE, CB, RCM, CCC							
	Withstanding Voltage	I/P-O/P (LED): 3.75kVac, O/P(LED)-O/P(DIM): 500Vac,							
		I/P-O/P(DIM): 500Vac							
	Insulation Resistance	I/P-O/P: >100MΩ@500Vdc							
		ENEC: EN61347-1: 2015, EN 61347-2-13: 2014/A1: 2017,							
		EN 62384: 2016/A1: 2009;							
0-6-6-0		CE-LVD: EN 61347-2-13: 2014/A1: 2017, EN 61347-1: 2015,							
Safety & Electromagnetic	Cofety Ctendende	EN 62493: 2015;							
Compatibility	Safety Standards	RCM: AS 61347.2-13: 2018;							
		CB: IEC 61347-1: 2015, IEC61347-2-3: 2014,							
		IEC 61347-2-13: 2014/AMD1: 2016;							
		CCC: GB19510.1-2009, GB19510.14-2009							
		CE-EMC/RCM: EN55015, EN61000-3-2, EN61000-3-3							
	EMI	CCC:GB/T17743, GB17625.1, GB17625.2							
	FMO	CE-EMC/RCM: EN61000-4-2, 3, 4, 5, 6, 11							
	EMS	CCC: GB/T17626.2, 3, 4, 5, 6, 11							
	IP Rating	IP20							
Others	RoHS	RoHS 2.0 (EU) 2015/863							
Others	Warranty Condition	5 yrs (TC≤68°C)							
	DALI Standard	IEC 62386-101 102 207: DALI 2.0							
	1. It is recommended that customer should install overvoltage and undervoltage protection								
	devices and surge protection devices in the power supply circuits of the light fixtures to								
	ensure safety before connecting to electricity.								
	2. When adjusting the output current via the DIP switch, please disconnect input AC power								
	supply first so as to use the DIP switch without the input AC power supply connected.								
	3. The PC cover, casing, end caps and other parts of the LED driver inside the LED light								
Remarks	fixture must conform to UL94-V0 flammability standard or above.								
	4. As an accessory, the LED driver is not the only factor determining the EMC performance of								
	the LED light fixture. The structure and the wiring of the light fixture are also relevant. Thus								
	it's strongly recommended the LED light fixture manufacturer should re-confirm the EMC of								
	the whole LED light fixture.								
	5. Unless otherwise stated, the parameters above are test results under these conditions:								
	ambient temperature 25 $^\circ \!\!\!\!\!^\circ \!\!\!^\circ$, humidity 50%, input voltage 230Vac and 100% load.								

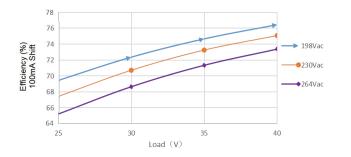


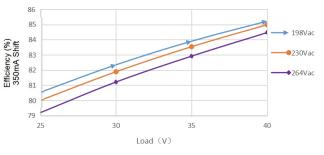
Product Characteristic Curves

PF Curves

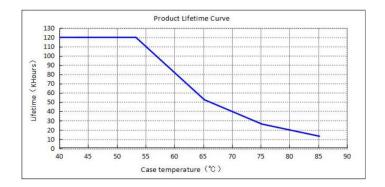


Efficiency Curves





Lifetime Curve





Dimming Operation Instructions

Definition of Driver's Terminals

INPUT

DA2 PUSH	Input terminal of DA2 and PUSH dimming
DA1 PUSH	Input terminal of DA1 and PUSH dimming
AC-N	Input terminal of AC neutral wire
AC-L	Input terminal of AC live wire
NC	Vacant
Ē	Grounding wire

OUTPUT

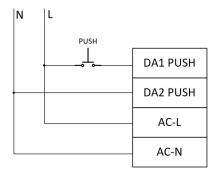
LED-	Negative electrode output of the driver
LED+	Positive electrode output of the driver

Definition of DIP Switch

I rated (CC)	1	2	3	
350mA	350mA -		-	
300mA	300mA -		ON	
250mA	250mA -		-	
200mA	-	ON	ON	
150mA	150mA ON		-	
100mA ON		-	ON	

Remark: except the known DIP switch modes, the default value of other DIP switch modes is 350mA (max).

Wiring Diagram of PUSH Dimming



1. The PUSH switch shall be connected in series between AC-L and DALI PUSH terminals and DA2 PUSH terminal shall be connected to AC-N.

2. AC-L and AC-N cannot be directly connected to DA1 PUSH and DA2 PUSH terminals.

3. Before the mains are connected, please ensure that the PUSH switch is disconnected. After that, the PUSH operation can be performed.

4. Before the mains are disconnected, please ensure that the PUSH switch is disconnected.

5. If you have any questions about the connection mode and the operation method, please confirm with FAE of our company.

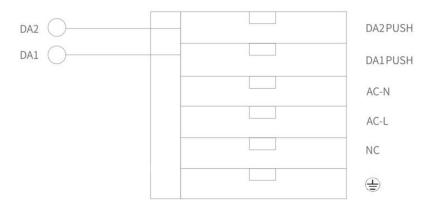
A If the wiring method or the operation method is incorrect, the LED driver may be damaged.



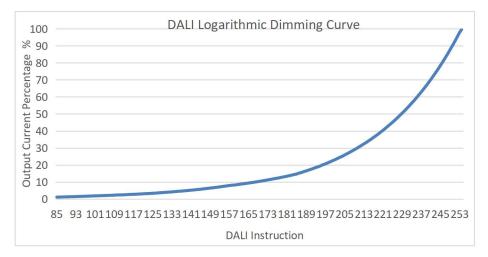
Instructions of PUSH dimming

Operations	Operation Time	Functions
Instant Push	0.1 ~ 0.5 sec	Light on / off
Long Push	0.6 ~ 11 sec	Dim up / down
Reset Push > 11 sec		Reset to 100% brightness

- The PUSH operation won't cause any variations if it's less than 0.1 sec.
- Minimum dimming depth of PUSH dimming: 1% (lout).
- The PUSH dimming mode has the memory function in case of any power failure. Power the driver again and the light will return to the state before the power failure.
- Maximum wire length between the PUSH switch and the farthest LED driver: 135m; wire diameter: 16-22AWG
- Maximum quantity of LED drivers connected in parallel in DALI dimming and PUSH dimming modes: 64
- Instructions of DALI dimming
- Default setting: 100% brightness.
- Connect DALI signal to DA1 and DA2 terminals.
- DALI protocol includes 16 groups and 64 IP addresses.
- Minimum dimming depth of DALI dimming: 0.1% (lout)





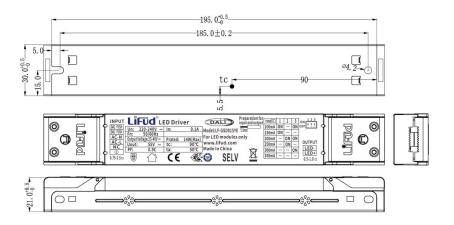


The DALI dimming function and the PUSH dimming function cannot be used at the same time, otherwise the DALI dimmer may be damaged.

Label

INPUT	LÌ	Fud ®	LE	DDr	iver	DAL		Preparation for input and output	Trated(CC)	1	2	3	ON 123
DA2 PUSH DA1 PUSH	Un: Fn:	220-240V 50/60Hz	~	In:	0.15A	Model:LF-GSD			100mA 150mA	ON ON	-	<u>ON</u>	OFF
AC-N AC-L	Output V	oltage:25-40V=	-+	Prated		For LED mod www.lifud.		only	200mA	-	ON	ON	OUTPUT
NC ()	Uout: PF:	55V = 0.9C	-	tc: ta:	90°C 50°C	Made in Chir	na	Ø	250mA 300mA	-	ON —	ON	LED-
0.75-1.5 -	9	\bigcirc	C	E	K *©	SELV	Dimmable		350mA	-	-	_	LED+ 0.5-1.0 🗆

Structure & Dimensions (unit: mm)





Packaging Specifications

Model	LF-GSD015YE
Packaging Dimension	385*285*210mm (L*W*H)
Quantity	8 pcs/layer; 7 layers/ctn; 56 pcs/ctn
Weight	0.152 kg/pc; 9.2 kg/ctn

Transportation & Storage

Transportation

- Suitable transportation means: vehicles, boats and aircraft.
- During transportation, there should be awnings for rain protection and sun protection. Civilized loading and unloading are required. There should be no severe vibration or impact.

Storage

• Storage in accordance with the provisions of Class I environment. For products which have been stored for more than six months, they mustn't be used until they pass the re-inspection.

Attention

- Please use this product according to its specifications otherwise there may be malfunction.
- Use light fixtures that have not been certified or are not compatible with the LED drivers may cause fire or other hazards.
- Man-made damage, any use beyond the specification and non-original-factory modification are not covered by warranty.

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