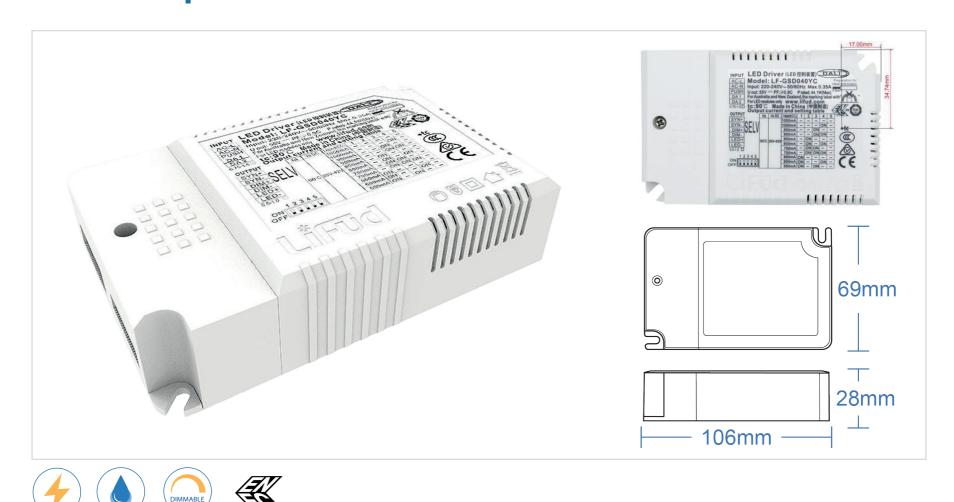


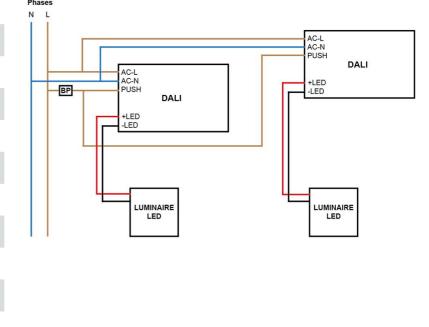
■ DRIVER | DRIVER LIFUD DIMMABLE DALI2 PUSH 0-10V 40W



Référence	825004
Puissance	40W
Dimmable	Dali2 / Push / 0-10V / PWM / Rx
Tension	220-240V AC
Sortie	25-42V 550-1050mA
Fréquence	47-63Hz
Protection IP	IP20
Facteur de puissance	≥0.95
THD	≤15%
Flicker free	Oui
Matière	PC Ignifuge
Dimensions	106 x 69 x 28mm
Certification	TUV-ENEC / RoHS / SAA / RCM / CE
Résistance au fil incandescent	650°C
T° de fonctionnement	-30°C ~ +50°C
Classe d'isolation électrique	II
Durée de vie	120 000 Heures
Garantie	2 Ans
Poids	0.164kg

Dali2 / Push / Certification 0-10V / PWM / RX ENEC

Schéma de câblage





Product Description

LF-GSD040YC series is a 40W constant current LED driver. It has DALI dimming and PUSH dimming functions. The input voltage range is 198-264Vac. The output current can be adjusted via the DIP switch from 550mA to 1050mA, in steps of 50mA.

Features

- IP20
- Plastic casing
- Suitable for Class I & II light fixtures
- Constant current output and the output current can be adjusted via the DIP switch
- Built-in active PFC function
- Standby power consumption < 0.5W
- 0.1% dimming depth
- 10pcs of LED drivers can be dimmed synchronously
- Supports 0-10V/PWM/Rx dimming
- Supports DALI dimming and the logarithmic or the linear dimming curves can be selected via the software
- Supports PUSH dimming
- 7-year warranty (Please refer to the warranty condition.)

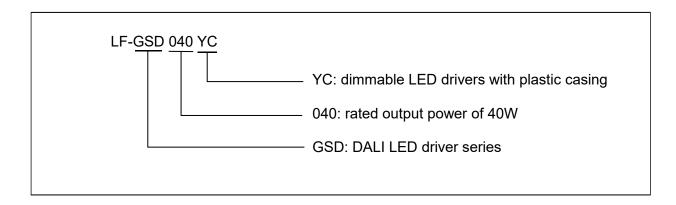
Applications

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





Product Naming







Electrical Characteristics

Model	LF-GSD040YC (0.1% dimming depth)								h)			
	Output Voltage	25-42V										
	Output Current	The output current can be adjusted via the DIP switch. Please refer to the DIP switch table.										
		550 mA	600 mA	650 mA	700 mA	750 mA	800 mA	850 mA	900 mA	950 mA	1000 mA	1050 mA
Output	Flicker Index	IEC-Pst≤1%, CIE SVM≤0.4%, Modulation Depth≤1% Conforms to the flicker free standard (IEEE Std 1789-2015)										
	Ripple Current	<5%	(rated	current)							
	Current Tolerance	±5%										
	Temperature Drift	±10%	1									
	Start-up Time	<1.48	@230	Vac								
	Input Voltage	220-2	40Vac	(voltaç	ge limit	: 198-2	64Vac	:)				
	DC Input Voltage	310-3	40Vdc	(voltag	ge limit	: 280-3	74Vdc	:)				
	Input Frequency	47-63	Hz									
	Input Current	0.35A	0.35A Max									
	Power Factor		≥0.93			≥0.94 ≥0.95						
	THD	≤15%										
Input	Efficiency	≥86.5% ≥87.5%										
	Inrush Current	≤47.6A/161uS@230Vac										
	Load Quantity Carried	Circuit Breaker Model			odel	B1	0	C10		B16	C	C16
	by the Circuit Breaker	Quantity (pcs)			s)	19 19 30 30					30	
	Surge Protection	L-N: 1	1KV				•					
	Leakage Current	≤0.7n	nΑ									
	Stand-by Power Consumption	≤0.5W (when the DALI OFF signal is effective)										
Protective	Open-Circuit Protection	<55V										
Features	Short-Circuit Protection	Hiccu	Hiccup mode (auto-recovery)									
	Operating Temperature	-30℃	~ +50	$^{\circ}$								
Environment	Operating Humidity	20-90	%RH	(no con	densa	tion)						
Conditions	Storage Temperature/Humidity	1		c(six m (no con			lass I e	environ	ment);			
	Atmospheric Pressure	86-10	6KPa									

www.lifud.com Service Hotline: +86 755 8373 9299

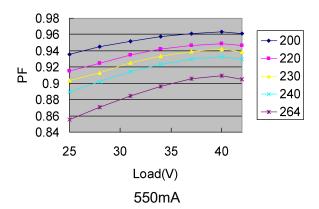


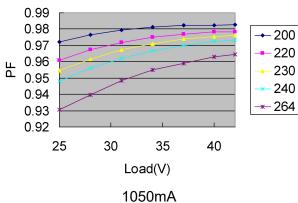
	Certifications	TUV-ENEC, CCC, RCM, CE, CB					
	Withstanding Voltage	I/P-O/P (LED): 3.75KVac, O/P(LED)-O/P(DA): 500Vac, I/P-O/P(DA): 500Vac					
	Insulation Resistance	I/P-O/P: >100MΩ@500Vdc					
		ENEC: EN61347-1: 2015, EN 61347-2-13: 2014/A1: 2017,					
		EN 62384: 2016/A1: 2009;					
		CE-LVD: EN 61347-2-13: 2014/A1: 2017, EN 61347-1: 2015,					
Safety & Electromagnetic	Cafata Otan danda	EN 62493: 2015;					
Compatibility		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					
	EMS	CE-EMC/RCM: EN61000-4-2, 3, 4, 5 (lightning strike 1KV), 6, 11					
	EIVIO	CCC: GB/T17626.2, 3, 4, 5 (lightning strike 1KV), 6, 11					
	IP Rating	IP20					
Others	RoHS	RoHS 2.0 (EU) 2015/863					
Culcis	Warranty Condition	7 yrs (TC≤80℃)					
	DALI Standard	IEC 62386-101 102 207: DALI 2.0					
	1. It is recommended th	at customer should install overvoltage and undervoltage protection					
	devices and surge pr	rotection devices in the power supply circuits of the light fixtures to					
	ensure safety before o	connecting to electricity.					
	2. Please disconnect the	AC input before adjusting the output current via the DIP switch.					
	3. The PC cover, casing,	end caps and other parts of the LED driver inside the LED light fixture					
	must conform to UL94	-V0 flammability standard or above.					
Remarks	4. As an accessory, the L	ED 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	d the LED light fixture manufacturer should re-confirm the EMC of the					
	whole LED light fixture	9.					
	5. Unless otherwise state	ted, the parameters above are test results under these conditions:					
	ambient temperature 2	25℃, humidity 50%, input voltage 230Vac and 100% load.					



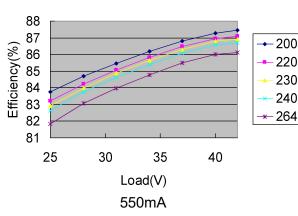
Product Characteristic Curves

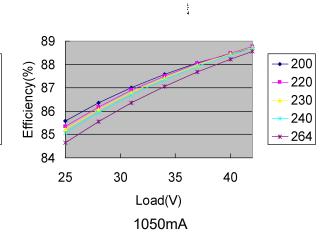
PF Curves



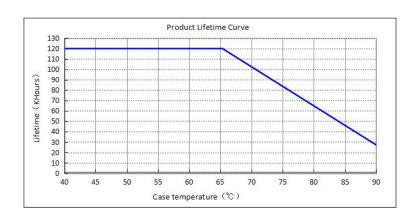


Efficiency Curves





Lifetime Curve





Instructions of Dimming Operation

■ Definition of Driver's Terminals

IN	ΙГ	וו	т
יוו	VГ	'U	, ,

AC-L	Input terminal of AC live wire
AC-N	Input terminal of AC neutral wire
PUSH	Input terminal of PUSH dimming
DA1	Input terminal of DALI1 dimming
DA2	Input terminal of DALI2 dimming

OUTPUT

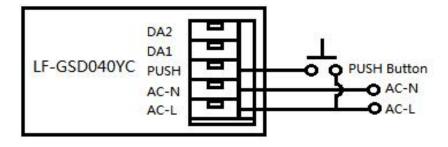
SYN+	Positive electrode output of synchronous dimming
SYN-	Negative electrode output of synchronous dimming
DIM+	Positive electrode of dimming
DIM-	Negative electrode of dimming
LED+	Positive electrode output of the driver
LED-	Negative electrode output of the driver

■ DIP Switch Table

I rated (CC)	1	2	3	4	5
1050mA	_	_	_	_	_
1000mA	_	_	_	ON	_
950mA	_	_	ON	_	_
900mA	_	_	ON	ON	_
850mA	_	ON		_	_
800mA	_	ON		ON	_
750mA	_	ON	ON		_
700mA	_	ON	ON	ON	_
650mA	ON	_			_
600mA	ON	_	_	ON	_
550mA	ON	_	ON	_	_

Remark: Except the settings mentioned in the table above, other DIP switch settings are default to be the maximum current 1050mA.

■ Wiring Diagram of PUSH Dimming



■ Instruction of PUSH dimming

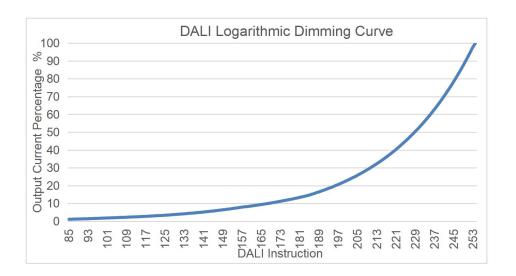
Operation	Operation Time	Function
Instant Push	0.1 ~ 0.5\$	Light on / off
Long Push	0.6 ~ 11S	Dim up / down
Reset Push	> 11S	Reset to the 100% brightness



- The PUSH operation won't cause any variation if it's less than 0.1S
- When controlling via the same button, in 0-10V mode, up to 10 pcs of LED drivers can be connected in parallel. In DALI & PUSH mode, up to 640 pcs of LED drivers can be connected in parallel by SYNC DIM connection.
- The PUSH button can only be connected to the middle of AC-L and PUSH terminals. Connecting to AC-N will cause the failure of PUSH dimming function.
- The minimum dimming depth of PUSH dimming is 1% (lout).
- The PUSH dimming mode has the memory function in case of any power failure. When the LED driver is restored,
 the light will return to the exact status before power failure.
- The maximum length of the leading wire from the PUSH button to the farthest LED driver is 135 meters. The wire diameter range is 16-22AWG.

Instruction of DALI dimming

- Factory default setting is of 100% brightness.
- Connect the DALI signal to DA1 and DA2 terminals.
- DALI protocol includes 16 groups and 64 IP addresses.
- The minimum dimming depth of DALI dimming is 0.1% (lout).



■ Instruction of 0-10V/PWM/Rx dimming

- 0-10V, PWM and Rx signals should be connected to the DIM terminal.
- In 0-10V mode, the light turns off when the input voltage ≤0.3V and turns on when the input voltage ≥0.5V.
- The minimum dimming depth of 0-10V dimming is 5% (lout).



0-10V dimming

Dimming voltage	≤0.3V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V
Rated current percentage	OFF	10%	25%	35%	50%	60%	75%	85%	100%	100%	100%

PWM dimming

PWM signal	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Rated current percentage	OFF	20%	40%	55%	70%	80%	90%	100%	100%	100%	100%

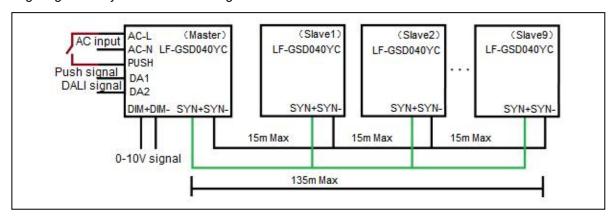
Rx dimming

Resistance	0K	10K	20K	30K	40K	50K	60K	70K	80K	90K	100K
Rated current percentage	OFF	30%	55%	70%	80%	85%	90%	95%	100%	100%	100%

Remark: Factory default setting is of 100% brightness.

Instruction of Synchronous dimming

- The maximum number of LED drivers can be dimmed synchronously is 10 pcs (one master and nine slaves). The maximum wire length between two LED drivers is 15 meters. The maximum wire length between the master and the farthest slave is 135 meters. The wire diameter range is 16-22AWG.
- The method of switching to synchronous dimming: choose a driver as a master and switch the fifth gear on the DIP switch to ON.
- The master can directly control slaves via DALI, 0-10V and push dimming signals to realize synchronous dimming function.
- Wiring diagram of synchronous dimming:



- Before using synchronous dimming function, please make sure that all LED drivers are at 100% output.
- When the synchronous dimming signal is withdrawn from the slaves, the slaves enter DALI mode by default.



Switch between dimming modes

Switch to DALI dimming

After powering on the driver for two seconds, press the DALI dimmer for ON/OFF operation. And then it becomes DALI dimming mode.

Switch to PUSH dimming

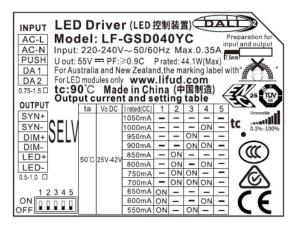
After powering on the driver for two seconds, press the PUSH switch for at least three seconds. And then it becomes PUSH dimming mode.

Switch to 0-10V dimming

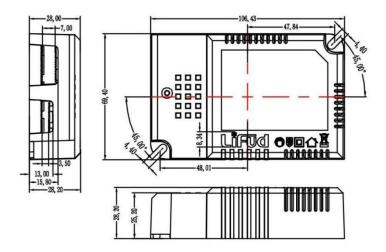
After powering on the driver for two seconds, adjust the 0-10V dimmer to the brightest or to the dimmest. One second later, it becomes 0-10V dimming mode.

Remark: When switching the DALI mode to another mode, the light must be on. It's a default setting that when the light is off because the DALI dimming mode cannot be switched to another mode.

Label



Dimensions (unit: mm)





Packaging Specifications

Model	LF-GSD040YC
Packaging Dimension	385×285×210mm (L×W×H)
Quantity	9 pcs/layer; 6 layers/ctn; 54 pcs/ctn
Weight	0.1636 kg/pc; 9.82 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 the 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.