

Features

- Supports 0-10V dimming; with a 12V AUX power supply
- CCT + current adjustable via external DIP switches
- · Smooth dimming curve and dim to off
- Complies with the latest DLC 5.1 standard
- 5-year warranty (please refer to the warranty condition)



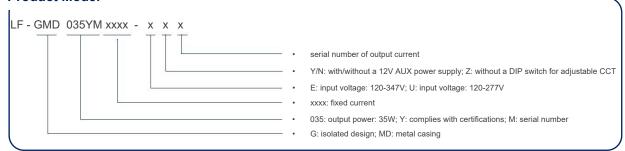
Applications

· Tri-proof light · linear light

Descriptions

LF-GMD035YM is an isolated constant current 0-10V dimmable LED driver with the maximum power of 35W. It is equipped with a 12V AUX power supply and can connect to external intelligent sensor module. Its output current is adjustable via an external DIP switch in 3 shifts and CCT in 3 modes.

Product Model



Lifud Technology Co., Ltd.



Model		LF-GMD035YM-EYG LF-GMD035YM-UYG				1-UYG			
	Output Voltage				30-42	2Vdc			
	Output Current	350mA 500r)mA	mA 700mA		′00mA		
Output	Current Tolerance	±7%			<u>±</u>	7%			±5%
	Temperature Drift	±10%							
	Startup Time	<1S	<1S						
	Input Voltage	120-347Vac (voltage limit: 108-382Vac) 120-277Vac (voltage limit: 108-30					it: 108-305Vac)		
	Input Frequency	50-60Hz (47-63H	z)						
	Input Current	0.5A max.							
	PF	≥0.98@120Vac&full load ≥0.87@347Vac&full load				≥0.98@120Vac&full load ≥0.9@277Vac&full load			
Input	Efficiency	≥85%@120Vac&full load							
	Inrush Current	≤23A&100uS@277Vac							
	Loading Quantities	Model	B10		C10		B16		C16
	of Circuit Breaker	Quantity (pcs)	18	18			29		29
	Leakage Current	<0.75mA			<0.5mA				
	Output Voltage	11Vdc (9.5-11.5V	/dc)						
12V AUX	Output Current	50mA max.							
Power Supply	Dynamic Load	Please make sure	Please make sure that the dynamic load matches for the LED driver.						
	Ripple Voltage	≤150mV							
Protections	Open Circuit	≤55Vdc							
110100110110	Short Circuit	Hiccup mode							
	Operating Temperature	-40°C - +50°C							
	Operating Humidity	10-95%RH (without	out conden	satio	n)				
Environment Descriptions	Storage Temperature/ Humidity	-40°C - +85°C (6 months in Class I environment); 0-95%RH (without condensation)						t condensation)	
	Atmospheric Pressure	86-106kPa							



Model		LF-GMI	D035YM-E	YJ			LF-G	MD035YN	Л-UYJ
	Output Voltage				30-42	2Vdc			
	Output Current	400mA 500n)mA	mA 650mA		550mA		
Output	Current Tolerance	±7%			<u>+</u>	7%			±5%
	Temperature Drift	±10%							
	Startup Time	<1S							
	Input Voltage	120-347Vac (volt	age limit:	108-3	82Vac)	120-277	7Vac (∖	oltage lim	it: 108-305Vac)
	Input Frequency	50-60Hz (47-63H	z)						
	Input Current	0.5A max.							
	PF	≥0.98@120Vac&full load ≥0.87@347Vac&full load					ac&full load c&full load	d	
Input	Efficiency	≥85%@120Vac&full load							
	Inrush Current	≤23A&100uS@277Vac							
	Loading Quantities	Model	B10		C10		B16		C16
	of Circuit Breaker	Quantity (pcs)	18	18			29		29
	Leakage Current	<0.75mA <0.5mA							
	Output Voltage	11Vdc (9.5-11.5V	.5-11.5Vdc)						
12V AUX	Output Current	50mA max.							
Power Supply	Dynamic Load	Please make sure	make sure that the dynamic load matches for the LED driver.						
	Ripple Voltage	≤150mV							
Protections	Open Circuit	≤55Vdc							
	Short Circuit	Hiccup mode							
	Operating Temperature	-40°C - +50°C							
1	Operating Humidity	10-95%RH (without	out conder	satio	n)				
Environment Descriptions	Storage Temperature/ Humidity	-40°C - +85°C (6	-40°C - +85°C (6 months in Class I environment); 0-95%RH (without condensation)						t condensation)
	Atmospheric Pressure	86-106kPa							



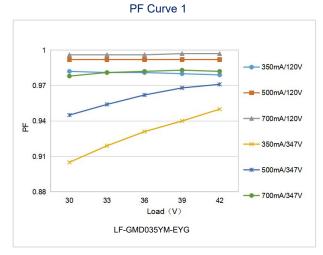
N	Model LF-GMD035YM0750-EY LF-GMD035YM0750)750-UY				
	Output Voltage	30-42Vdc						
	Output Current	750mA						
Output	Current Tolerance	$\pm 5\%$						
	Temperature Drift	±10%						
	Startup Time	<18						
	Input Voltage	120-347Vac (volt	age limit: 108-3	82Vac)	120-27	7Vac (voltage lim	nit: 108-305Vac)	
	Input Frequency	50-60Hz (47-63H	z)					
	Input Current	0.5A max.						
	PF	≥0.98@120Vac& ≥0.87@347Vac&				≥0.98@120Vac&full load ≥0.9@277Vac&full load		
Input	Efficiency	≥85%@120Vac&full load						
	Inrush Current	≤23A&100uS@277Vac						
	Loading Quantities	Model	B10	C10		B16	C16	
	of Circuit Breaker	Quantity (pcs)	18	18		29	29	
	Leakage Current	<0.75mA			<0.5mA	١		
	Output Voltage	11Vdc (9.5-11.5V	/dc)					
12V AUX	Output Current	50mA max.						
Power Supply	Dynamic Load	Please make sure	e that the dynar	nic load	matches	for the LED drive) driver.	
	Ripple Voltage	≤150mV						
Protections	Open Circuit	≤55Vdc						
	Short Circuit	Hiccup mode						
Operating -40°C - +50°C				°C				
	Operating Humidity	10-95%RH (witho	out condensatio	n)				
Environment Descriptions	Storage Temperature/ Humidity	-40°C - +85°C (6	-40°C - +85°C (6 months in Class I environment); 0-95%RH (without condensation)					
	Atmospheric Pressure	86-106kPa						



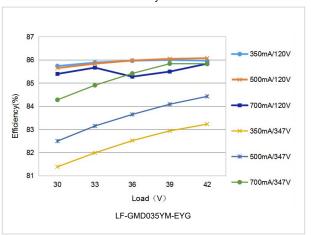
	ii Characteristics				
	Certifications	FCC, UL			
	Withstanding Voltage	I/P-O/P: 3.75kV&5mA&60S; I/P-PG: 1.5kV&5mA&60S; O/P-PG: 0.5kV&5mA&60S; DIM+/DIMPG: 0.5kV&5mA&60S			
Safety and	Insulation Resistance	I/P-O/P: >100MΩ@500Vdc			
EMC	Safety Standards	UL8750			
	EMI	Part 15 Class B@120Vac; Part 15 Class A@277Vac&347Vac			
	EMS	Ringing wave: 2.5kV (Class B); lightning strike: L-N: 1kV, L/N-PE: 2kV			
	IP Rating IP20				
Other Parameters	RoHS	RoHS 2.0 (EU) 2015/863			
	Warranty	5 yrs (Tc≤78°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, spectroanalyzer: KH3935, withstanding voltage tester: EEC SE7440, flicker tester (flicker-free coefficient test) Everfine LFA-3000, etc.				
Remarks	 It is recommended that user install over voltage protection, under voltage protection and surge protection devices in the power supply circuits of light fixtures to ensure electricity safety. The LED driver used in combination with the end device is one of the accessories of the whole light fixture, and the EMC of the whole light fixture is not only susceptible to the driver itself, but to the LED light fixture and the whole light fixture's wiring. Thus, the manufacturer of LED light fixture should re-confirm the EMC of the whole light fixture before the whole light fixture is finished. The test conditions of the circuit breaker configuration quantity are the same as those of the inrush current. The PC cover, casing and end cap for assembling the LED driver in the light fixture must meet the fire rating of UL94-V0 or above. The above parameters are tested at the ambient temperature of 25°C, humidity of 50%, full load and input voltage of 120Vac/60Hz without any special remarks. The LED driver is equipped with a 12V AUX power supply, and if it is not loaded, the output current will be 25mA (max.) higher than the rated one. 				



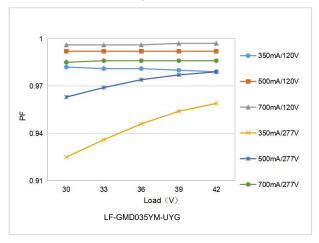
■ Product Characteristic Curves



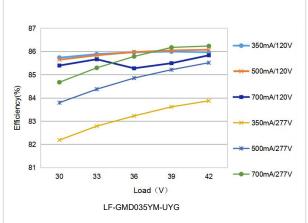
Efficiency Curve 1



PF Curve 2

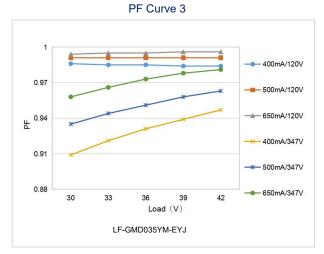


Efficiency Curve 2

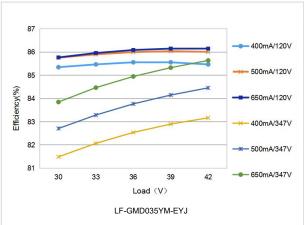




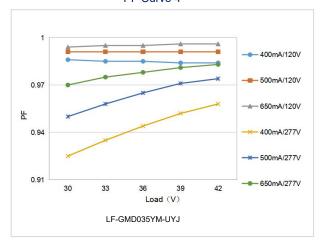
■ Product Characteristic Curves



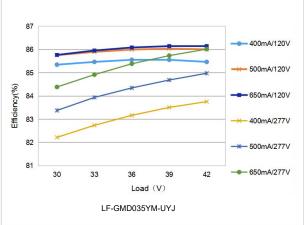
Efficiency Curve 3



PF Curve 4

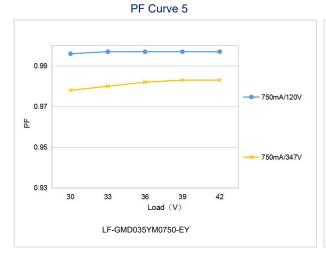


Efficiency Curve 4

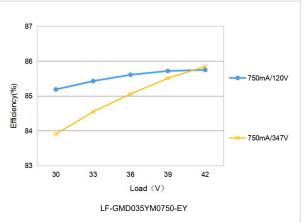




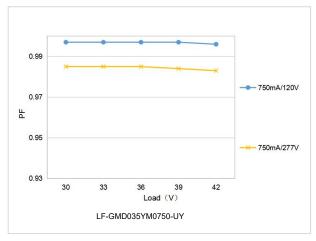
■ Product Characteristic Curves



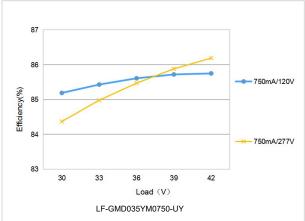
Efficiency Curve 5



PF Curve 6

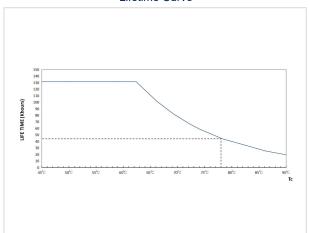


Efficiency Curve 6

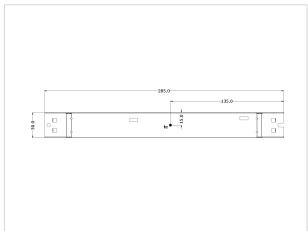




Lifetime Curve

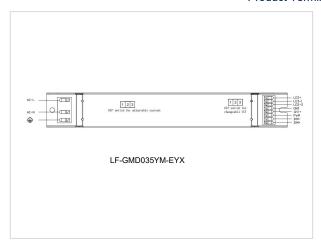


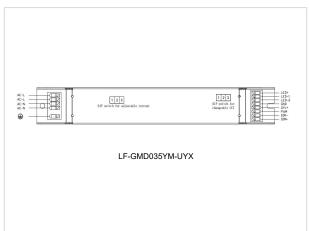
Tc Point Testing Diagram



■ Dimming Operation Instructions

Product Terminal Definitions







	LF-GMD035YM-Exx				
Input terminal			Output terminal		
AC-L	Input terminal of AC live wire	LED+	Positive electrode output of LED driver		
		LED-1	Negative electrode output of LED driver		
AC-N	Input terminal of AC neutral wire	LED-2	Negative electrode output of LED driver		
		GND	Negative electrode output of 12V AUX power supply		
(I)	Grounding wire	12V+	Positive electrode output of 12V AUX power supply		
		PWM	Input terminal of PWM signal		
		DIM-	Negative electrode input of 0-10V signal		
		DIM+	Positive electrode input of 0-10V signal		

	LF-GMD035YM-Uxx				
Input terminal			Output terminal		
AC-L	Input terminal of AC live wire	LED+	Positive electrode output of LED driver		
AC-L	Input terminal of AC live wire	LED-1	Negative electrode output of LED driver		
AC-N	Input terminal of AC neutral wire	LED-2	Negative electrode output of LED driver		
AC-N	Input terminal of AC neutral wire	GND	Negative electrode output of 12V AUX power supply		
	Grounding wire	12V+	Positive electrode output of 12V AUX power supply		
		PWM	Input terminal of PWM signal		
		DIM-	Negative electrode input of 0-10V signal		
		DIM+	Positive electrode input of 0-10V signal		



DIP Switch Instructions

	DIP Switch for Adjustable Current SW1					
Shift	LF-GMD035YM-EYG LF-GMD035YM-UYG	LF-GMD035YM-EYJ LF-GMD035YM-UYJ				
1	350mA	400mA				
2	500mA	500mA				
3	700mA	650mA				

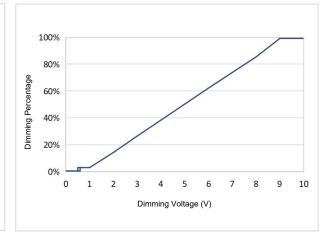
DIP Switch for Adjustable CCT SW2					
Shift	Instruction				
1	Loops of LED+ & LED-2 connected, light of LED-2 turns on				
2	Loops of LED+, LED-1 & LED-2 connected, lights of LED-1 & LED-2 turn on synchronously				
3	Loops of LED+ & LED-1 connected, lights of LED-1 turns on				

0-10V Dimming Operation

Connect 0-10V signal to DIM+ and DIM- terminals.

- In 0-10V dimming mode, when the input voltage is less than $0.4V\pm0.2$, the light turns off. When it's more than $0.5V\pm0.2$, the light turns on.
- Dimming depth: 8% (typical value)
- DIM+/- (without signal connected): 100% rated current output
- It is recommended that user set the dimmer to "DIM OFF" when its voltage <1V.

0-10V Dimming Curve

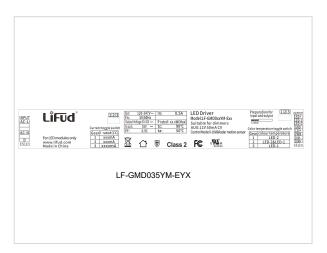


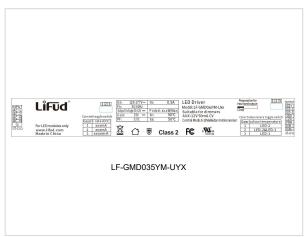


12V+ & PWM Terminal Characteristics

- Maximum load of 12V+ AUX power supply: 50mA
- When 12V+ AUX power supply is loaded or of no load, the current difference of LED output current is 25mA (max).
- 12V+ terminal and PWM termical share GND terminal together.
- PWM terminal can only be used to enable startup and shutdown control functions.
- Frequency of input signal at PWM terminal: 3kHz, amplitude: 5V
- PWM dimming and 0-10V dimming cannot be used at the same time.

■ Label

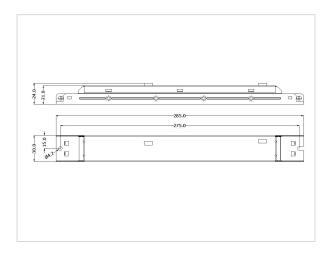






■ Structures and Dimensions (unit: mm)

LED Driver's Casing Dimension (L*W*H)	Distance Between 2 Positioning Holes (L)	Diameter of Positioning Hole (D)
285*30*24 mm (±0.5mm)	275 mm (±0.5mm)	4.2 mm (±0.2mm)



■ Packaging Specifications

Model	LF-GMD035YM-XXX
Carton Size	385*285*210mm (L*W*H)
Quantity	8 pcs/layer; 5 layers/ctn; 40 pcs/ctn
Weight	0.19 kg \pm 5%/pc; 8.4 kg \pm 5%/ctn



■ Transportation and Storage

1. Transportation

- Suitable transportation means: vehicles, boats and aeroplanes.
- In transit, it is necessary to prepare awnings for rain or sun protection. Moreover, please keep civilized loading and unloading to prevent the vibration or impact of LED driver as much as possible.

2. Storage

The storage of LED driver shall conform to the standard of Class I environment. When using LED drivers which
have been stored for more than 6 months, please re-test them firstly. Do not use them unless they are tested
to be qualified.

Cautions

- Please use Lifud LED driver according to its parameters in the specification, otherwise the LED driver may
 malfunction.
- Using any incompatible light fixtures or those that have not been certified may cause fire, explosion or other risks
- · Man-made damage is beyond the scope of Lifud warranty service.

Remark: Lifud Tecnology Co., Ltd. reserves the right to interpret any contents of this specification.