Features

- Metal casing
- Two stage flicker-free
- High efficiency; high PF
- IP20
- 5-year warranty (please refer to the warranty condition)

Applications

· Commercial lighting · indoor-office lighting · decorative lighting · residential lighting

Descriptions

LF-GMR065YS-ELS002 is a 65W constant current LED driver. Its input voltage ranges from 220 to 240Vac. Its output current is adjustable from 350 to 500mA via DIP switch with every 50mA as a step. It is suitable for Class I light fixtures like tri-proof light and linear light.

Product Model

LF- GMR065 YS - ELS002

- ELS: customized serial number
- Y: complies with certifications; S: serial number
- 065: output power: 65W
- G: isolated design; MR: indoor metal casing tri-proof light

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■ Electrical Characteristics

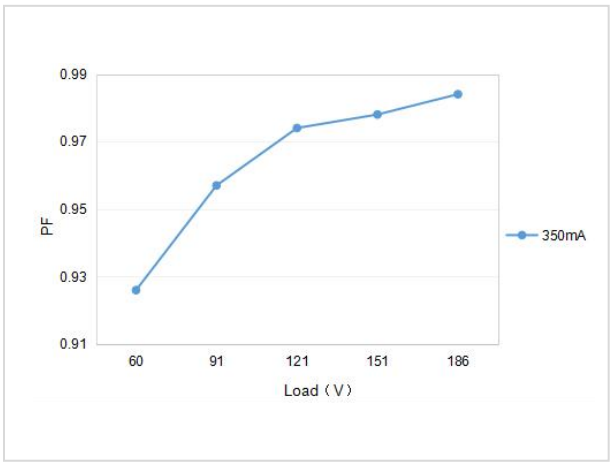
Model		LF-GMR065YS-ELS002				
Output	Output Voltage	60-186Vdc	60-163Vdc	60-145Vdc	60-130Vdc	
	Output Current	350mA	400mA	450mA	500mA	
	Ripple Current (<120Hz)	±5%				
	Flicker Index	Complies with IEEE Std 1789-2015				
	CIE SVM	≤0.4				
	IEC-Pst	≤1				
	Current Tolerance	±5%				
	Temperature Drift	±10%				
	Start-up Time	＜0.5S				
Input	Input Voltage	198-264Vac (rated voltage: 220-240Vac)				
	DC Input Voltage	180-264Vdc①				
	Input Frequency	0/50/60Hz				
	Input Current	0.5A Max				
	PF	≥0.98				
	THD	≤15%				
	Efficiency	≥90.5%				
	Inrush Current	≤50A&220uS				
	Loading Quantities of Circuit Breaker	Model	B10	C10	B16	C16
		Quantity (pcs)	10	16	16	27
	Leakage Current	≤0.7mA				
	Standby Consumption	≤0.5W				
Protection Characteristics	Open Circuit	<250V				
	Over Voltage	No output or damage when powering on 380Vac				
	Short Circuit	Hiccup mode(auto-recovery)				
Environment Descriptions	Operating Temperature	-30℃ - +50℃				
	Operating Humidity	0-95%RH (no condensation)				
	Storage Temperature/ Humidity	-30℃ - +80℃ (6 months in Class I environment); 0-95%RH (no condensation)				
	Atmospheric Pressure	86-106kPa				

■ Electrical Characteristics

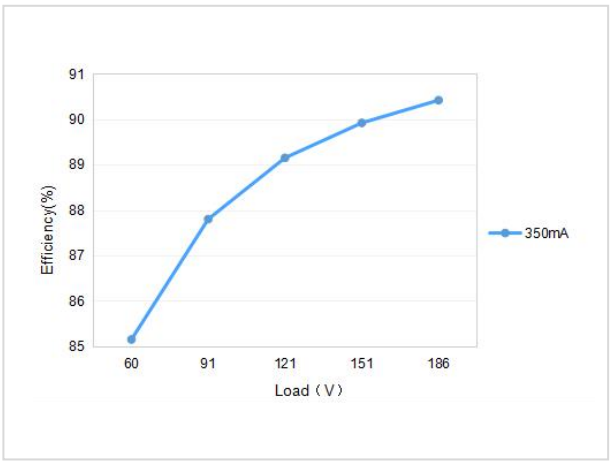
Safety & EMC	Certifications	Complies with CE
	Withstand Voltage	I/P-O/P：3.75kV&5mA&60S；I/P-PG：1.5kV&5mA&60S；O/P-PG：0.5kV&5mA&60S
	Insulation Resistance	I/P-O/P：＞100MΩ@500Vdc
	Safety Standards	CE-LVD: EN 61347-2-13:2014/A1:2017，EN 61347-1:2015，EN 62493:2015 CB:IEC 61347-1:2015，IEC61347-2-3:2014，IEC 61347-2-13:2014/AMD1:2016
	EMI	CE-EMC:EN55015，EN61000-3-2，EN61000-3-3
	EMS	CE-EMC:EN61000-4-2,3,4,5(L-N:2KV,L/N-PG:2KV),6,11
Other Parameters	IP Rating	IP20
	RoHS	RoHS 2.0 (EU) 2015/863
	Warranty	5 years (Tc≤81℃)
Test 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: EEC SE7440, flicker tester (flicker-free coefficient test): Everfine LFA-3000, etc.	
Test Remark	If there are no special remarks, the above parameters are tested at the ambient temperature of 25℃, humidity of 50%, maximum output power and input voltage of 230Vac/50Hz.	
Additional Remarks	1. It is recommended that user install the over voltage protection, under voltage protection and surge protection devices in the power supply circuits of light fixtures to ensure electricity safety. 2. 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. 3. The test conditions of the circuit breaker configuration quantity are the same as those of the inrush current. 4. 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. 5. It is recommended to install double-pole switch at AC input terminal. If user uses the single-pole switch, make sure to connect it to wire L (live wire), otherwise the afterglow of light fixture would be incurred after the AC is disconnected. Note: ① DC input is only for emergency use with the longest time of 90 mins.	

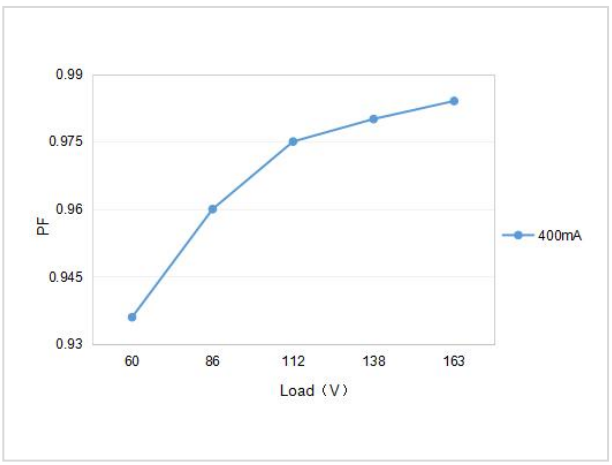
■ Product Characteristic Curves

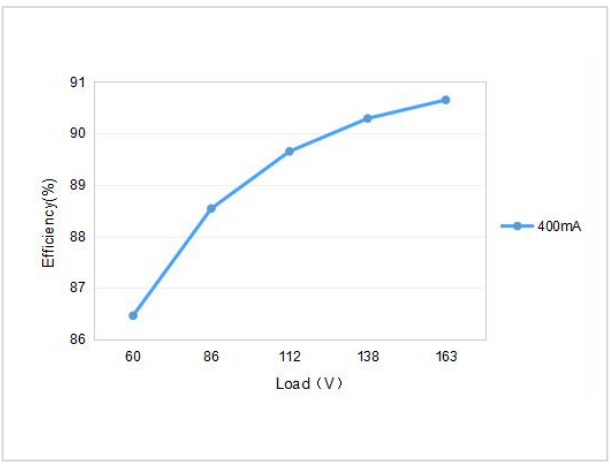
PF Curve

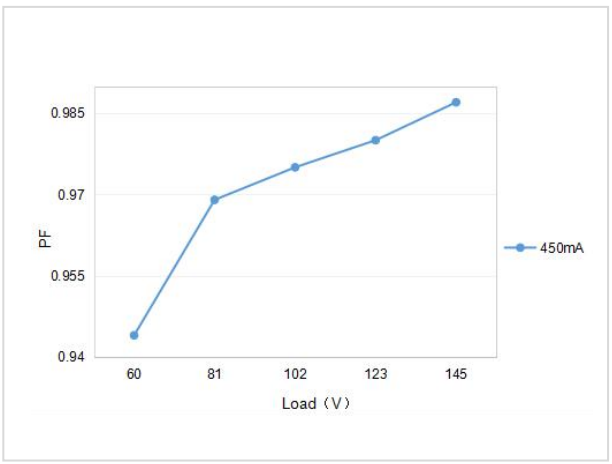


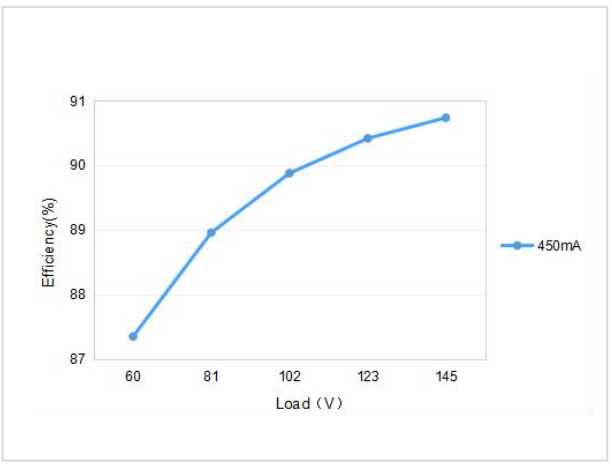
Efficiency Curve











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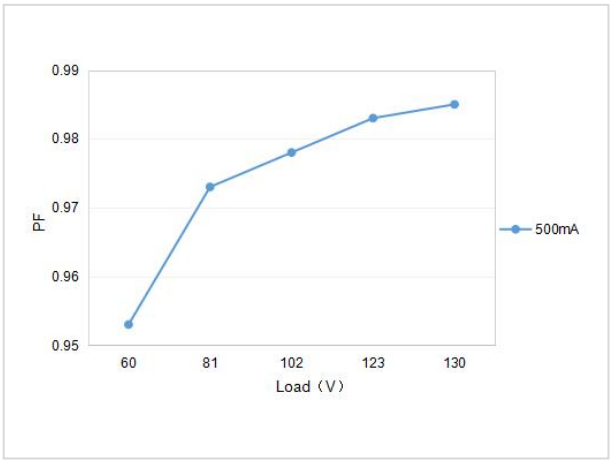

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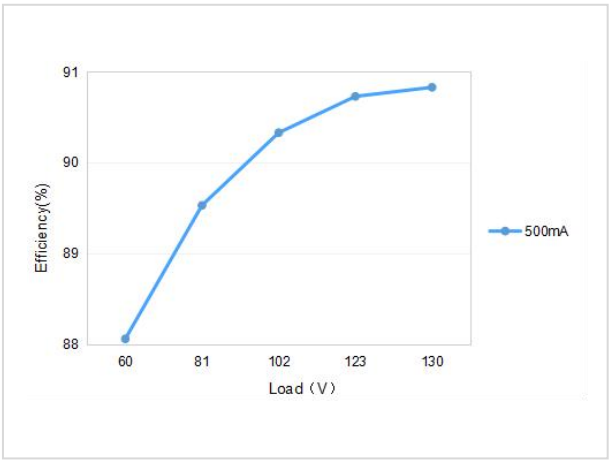
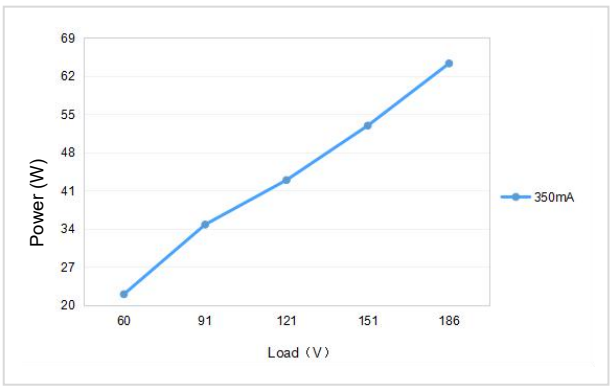
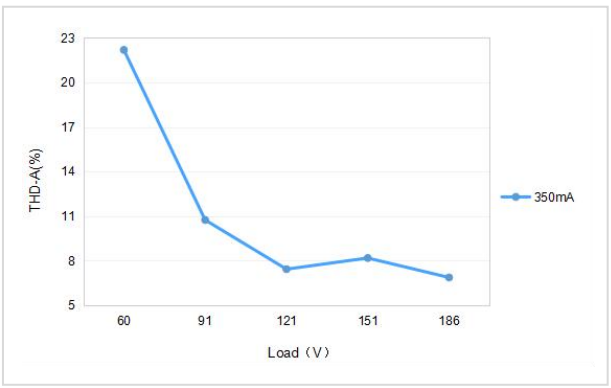
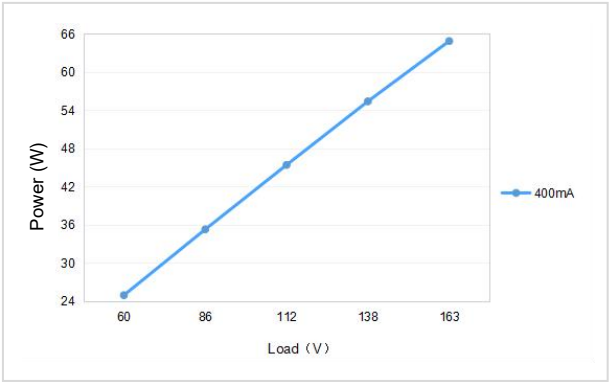


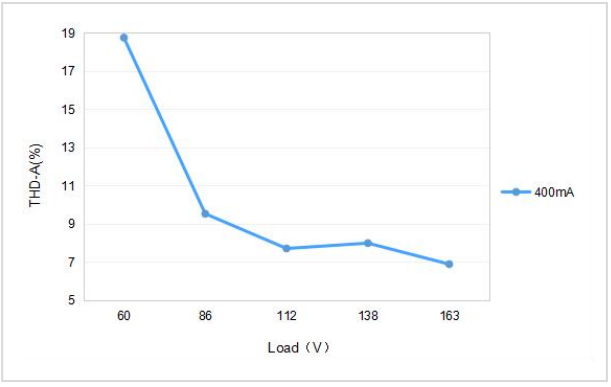
Power Curve



THD Curve

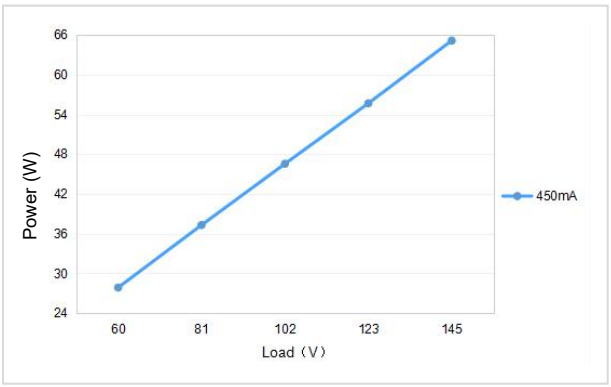




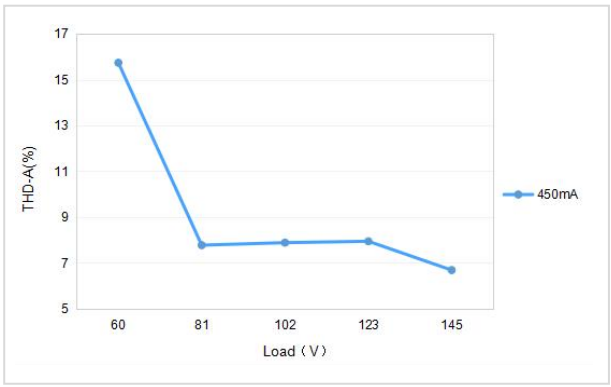


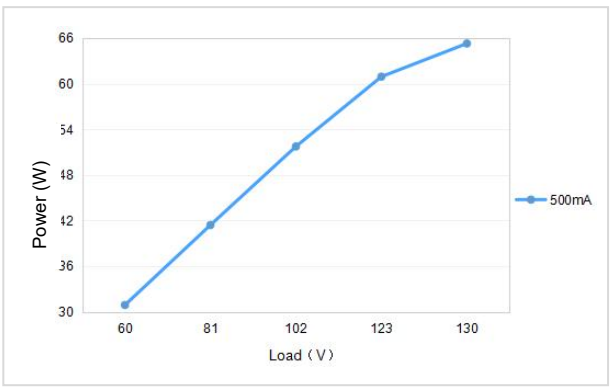
■ Product Characteristic Curves

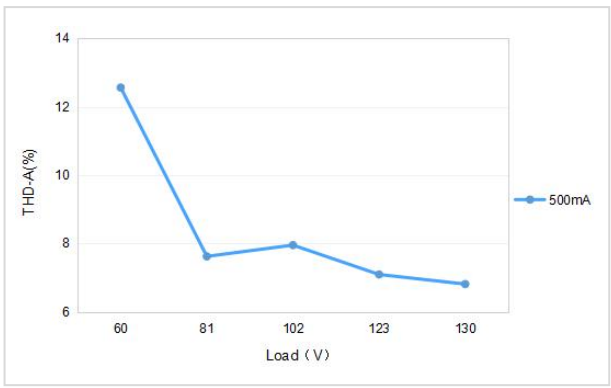
Power Curve



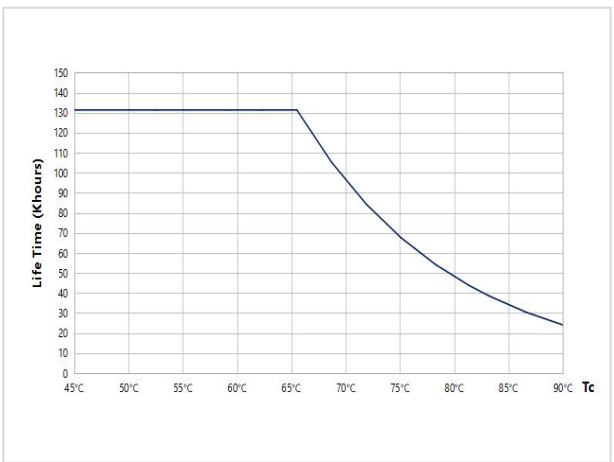
THD Curve



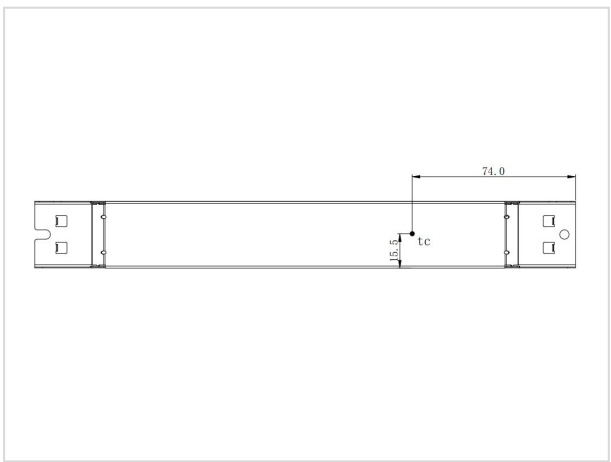




Lifetime Curve



Tc Point Testing Diagram



■ Product Definitions

Product Terminal

INPUT	
AC-L	AC live wire input
AC-N	AC neutral wire input
⏚	Earth wire

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

■ Product Definitions

Product DIP Switch

I rated (CC)	1	2
350mA	-	-
400mA	ON	-
450mA	-	ON
500mA	ON	ON

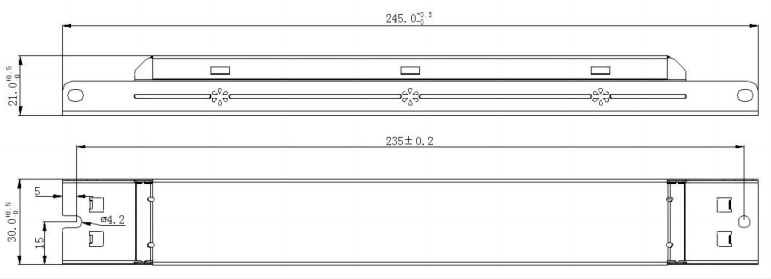
Remark: "-": shift OFF

■ Structure & Dimensions (unit: mm)

Product Dimensions

Model	Overall Appearance (L*W*H)	Distance Between 2 Positioning Holes (L)	Diameter of Positioning Hole (D)
LF-GMR065YS-ELS002	245*30*21 mm (±0.5mm)	235 mm (±0.2mm)	4.2 mm

Structure Diagram



■ Packaging Specifications

Model	LF-GMR065YS-ELS002
Carton Size	385*285*210mm (L*W*H)
Quantity	8 pcs/layer; 7 layers/ctn; 56 pcs/ctn
Weight	0.19±5% kg/pc; 11.55±5% kg/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.