FV60W24CG2 FV60W48CG

Constant Voltage Driver

Model:FV60W24CG2 FV60W48CG

Model	Product Code	Output Current	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
FV60W24CG2	136761	0-2500mA	0-60W	0.95	90%	24V	25V
FV60W48CG	136781	0-1250mA	0-60W	0.95	91%	48V	49V

*** Test result @230V, 50Hz, Full Load.**

*** Recommended minimum power is 10% load.**

1. Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Voltage
	Dimming Type	N/A
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class II
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	176-264VAC
	Frequency	50/60Hz
	Input Current	≤0.38A
	Input Power	≤68W
	Power Factor	≥0.95 (230VAC，full load)
	THD	≤15% (230VAC，full load)
	No-load Power Consumption	≤0.5W @230VAC
Output	Output Voltage	24V±5% or 48V±5%
	Max. Output Power	60W
	Efficiency	≥91% (230VAC，full load)
	Voltage Ripple	3% ((Vmax-Vmin) / (Vmax+Vmin) 230VAC，full load)
	PstLM	≤1
	SVM	≤0.4
	Current Accuracy	N/A
	Startup Time	≤0.5S(230VAC，full load)
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery
	No-load Protection	Auto Recovery

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	Insulation voltage	3000V 5mA 60S between P-S
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	< 250μA, I/P to O/P or I/P to PE @230V input
Environment	Ta/Operation Temperature	-25….+45℃
	Ts/Storage Temperature	-40….+85℃
	Tc/Enclosure Temperature	85℃
	Humidity	10%....90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	terminal block
	Installation	Independent
	PRI Wire preparation	0.75-1.5□
	SEC Wire preparation	0.5-1.5□
	Dimension	170*57*18mm (L*W*H)
Standards	Certification	CE,ENEC,SAA, UKCA,
	Safety Standards	EN61347-1:2015 EN61347-2-13:2014/A1:2017 EN62384:2006/A1:2009 AS61347.2.13:2018 AS/NZS61347.1:2016 Inc A1
	EMC Standards	EN IEC 55015:2019 EN IEC 55015:2019/A11:2019 EN IEC 61000-3-2:2019 EN 61000-3-3:2013/A1:2019 EN61547:2009
	Performance	EN62384
	Surge	L-N/2KV
Others	RoHS	complied to 2011/65/EU
	Life Time	50000h @45℃ (Ta)/ 90℃ (Tc)
	Warranty	5years ， F.R. < 10000ppm
Remark: 1.All Parameters, if not specified, are measured at 230VAC/50Hz and 25℃ ambient temperature. 2.LED Driver is a component of the luminaires, Luminaires and wire layout will affect the EMC, please check the EMC with end products again.		

2. Connected quantities of different current Breaker

TYPE	Connected quantities of different current Breaker						Input Voltage	Inrush Current（A）	Time（μs）
	current（A）	10	13	16	20	25			
	Installation wire diameter	1.5mm²	2.5mm²	2.5mm²	4mm²	4mm²			
TYPE B		18	23	28	36	44	@230VAC	33.8	248
TYPE C		28	37	45	57	71			
TYPE D		45	59	73	91	114			

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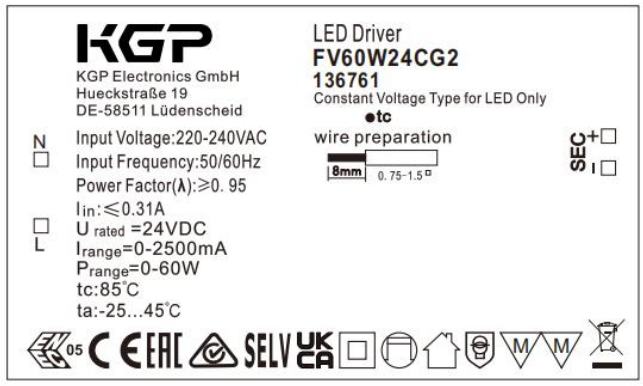
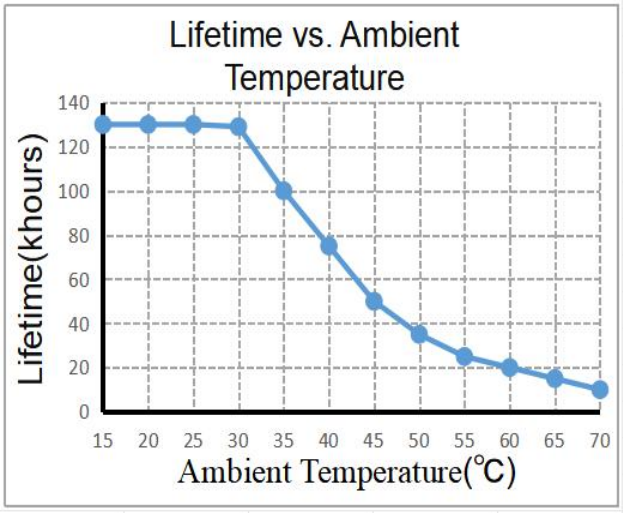
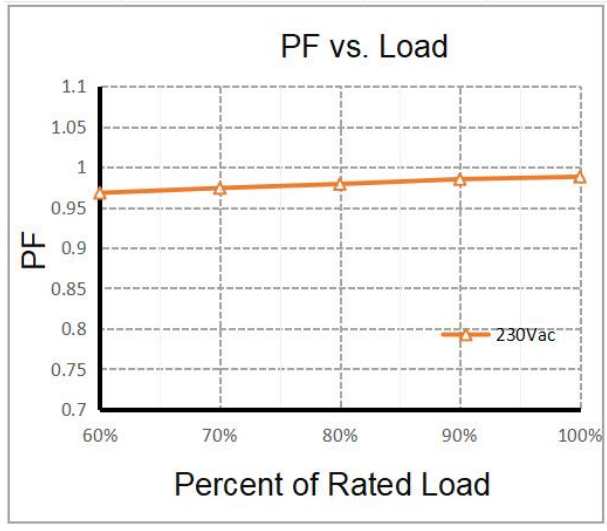
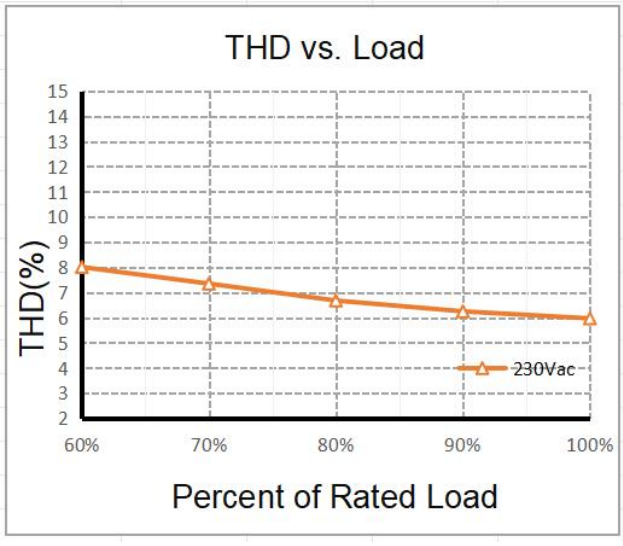
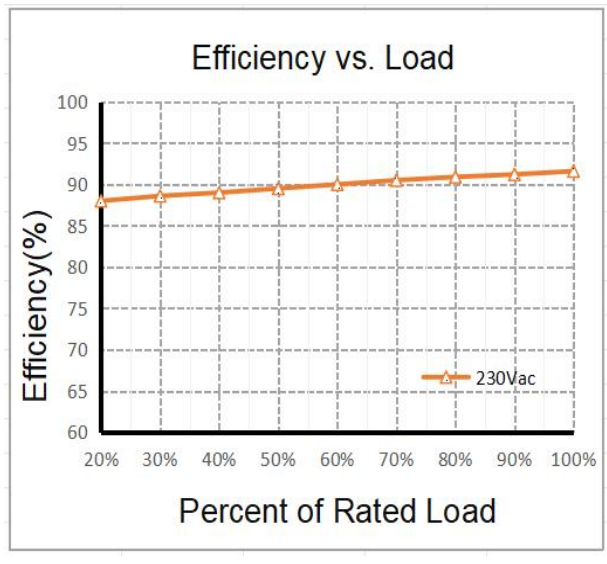
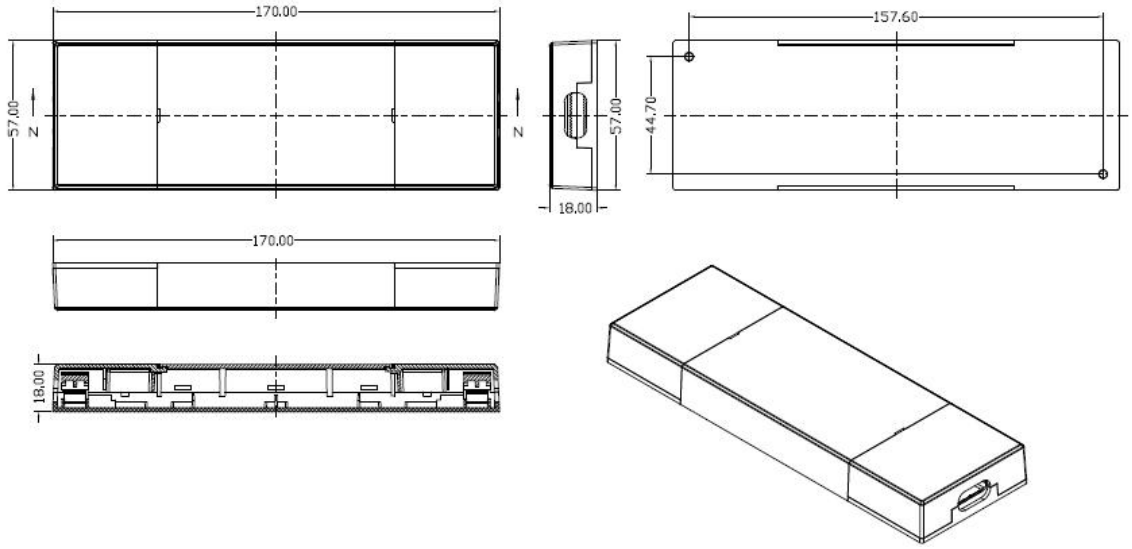
3. Label



4. Electrical values

Lifetime vs. Case Temperature	PF vs. Load
	
THD vs. Load	**Efficiency vs. Load**
	

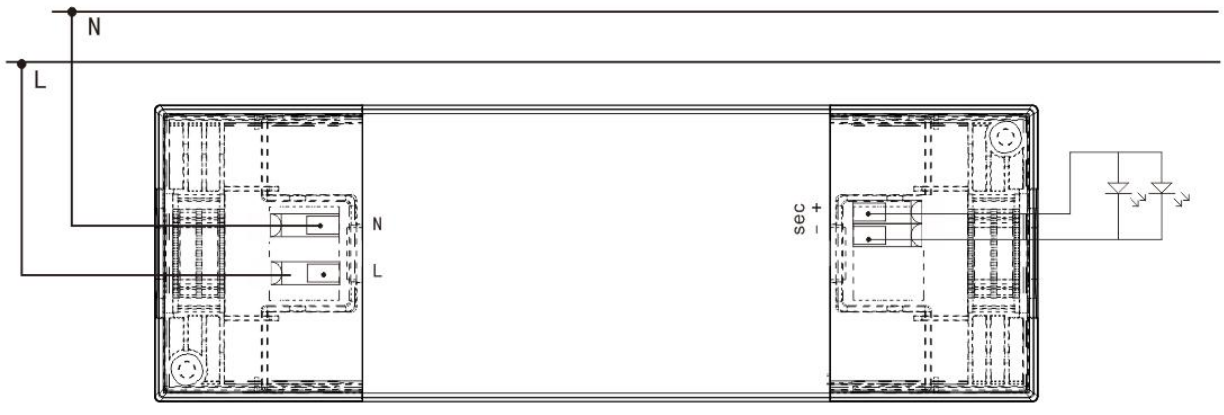
5. Dimension （Unit：mm）



6. Packing information

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
305*215*305	50	0.148	7.4	7.93

7. Wiring Diagram



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8. Wiring instructions

• All connections must be kept as short as possible to ensure good EMI behaviour

• Mains leads should be kept apart from LED Driver and other leads (ideally 5 – 10 cm distance)

• Advice the maximum length of output wires is 3 m

• Secondary switching is not permitted（Except for constant voltage）

• Incorrect wiring can damage LED modules.

• The wiring must be protected against short circuits to earth (sharp edged metals parts, metal cable clips, louver, etc.)

9. REVISION HISTORY

DATE	REV.	REMARK
2024-04-22	V1.0	Initial release.
2025-01-04	V1.1	Update printing
2025-04-26	V1.2	Update label and picture

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