FV36W(24-48)CG

Constant Voltage Driver

Model:FV36W(24-48)CG

Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage	No load Voltage
FV36W24CG	0-1500mA	0.21A	44W	0-36W	0.95	85%	24V	25V
FV36W48CG	0-750mA	0.21A	44W	0-36W	0.95	86%	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
	Range of DC Input Voltage	230-280VDC
	Frequency	50/60Hz
	Input Current	≤0.21A
	Input Power	≤44W
	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%
	Output Power	0-36W
	Efficiency	≥86% (230VAC，full load)
	Voltage Ripple	3% (Vmax-Vmin) / (Vmax+Vmin)
	PstLM	≤1
	SVM	≤0.4

KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid

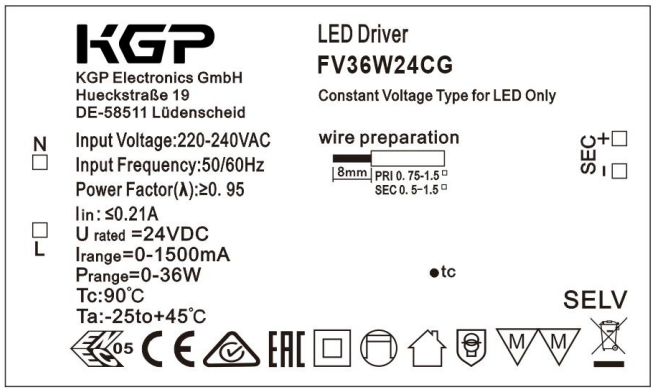
	Current Accuracy	N/A
	Start up Time	≤0.5S (230VAC，full load)
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery
	No-load Protection	Auto Recovery
	Insulation voltage	I/P to O/P,3KVac/5mA/1min
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	I/P to O/P < 250μA
Environment	Ta/Operation Temperature	-25….+45℃
	Ts/Storage Temperature	-40….+85℃
	Tc/Enclosure Temperature	90℃
	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	ENEC、CE、EAC、SAA
	Safety Standards	EN61347-1:2015 EN61347-2-13:2014/A1:2017 EN62384:2006/A1:2009 EN62493:2015 AS61347.2.13:2018 AS/NZS61347.1:2016 Inc A1
	EMC Standards	EN IEC 55015:2019 EN61547:2009 EN IEC 61000-3-2:2019 EN 61000-3-3:2013/A1:2019
	Performance	EN62384
	Surge	L-N/2KV
Others	RoHS	Complied to 2011/65/EU
	Life Time	50000h @Ta / 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.		

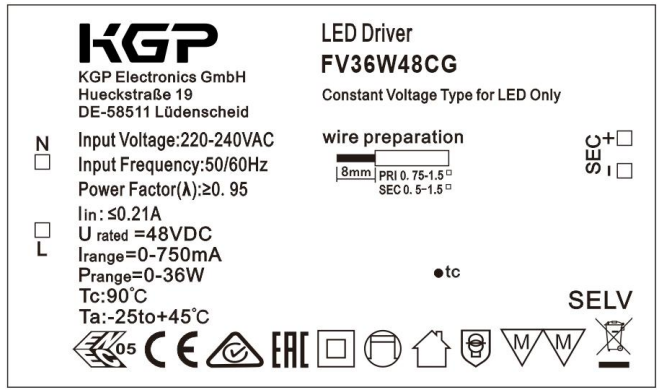
2. Connected quantities of different current Breaker

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		31	40	49	62	77	@230VAC	19.4	208
TYPE C		49	64	79	99	124			
TYPE D		79	103	127	158	198			

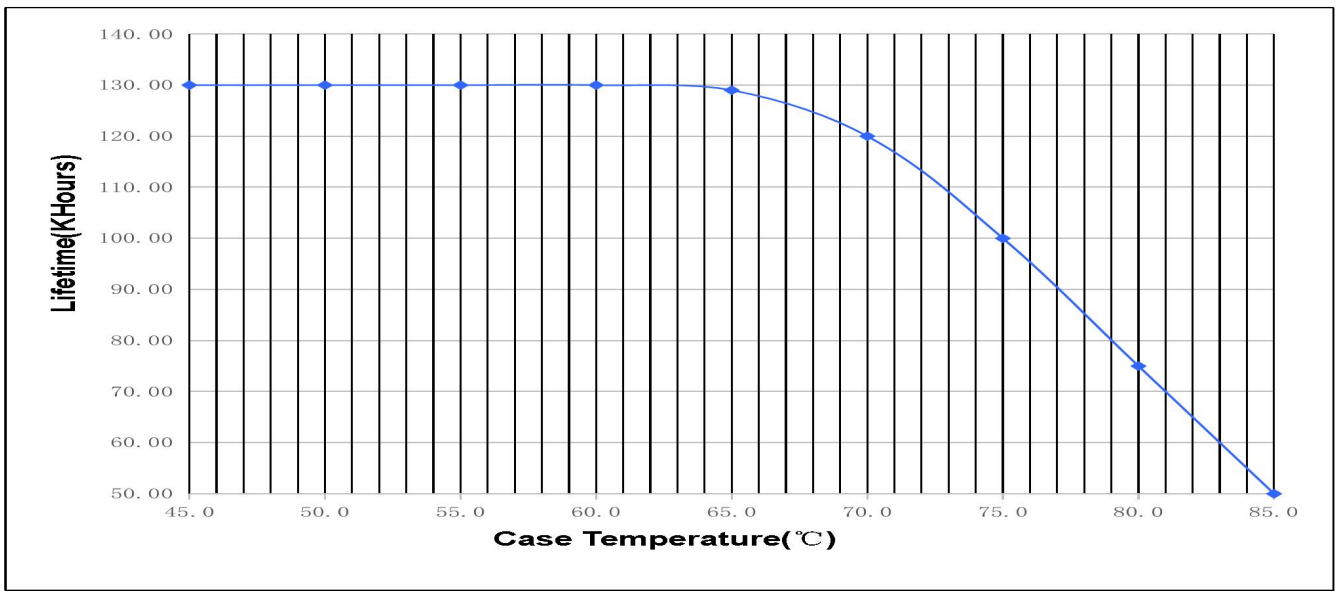
KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid

3. Label

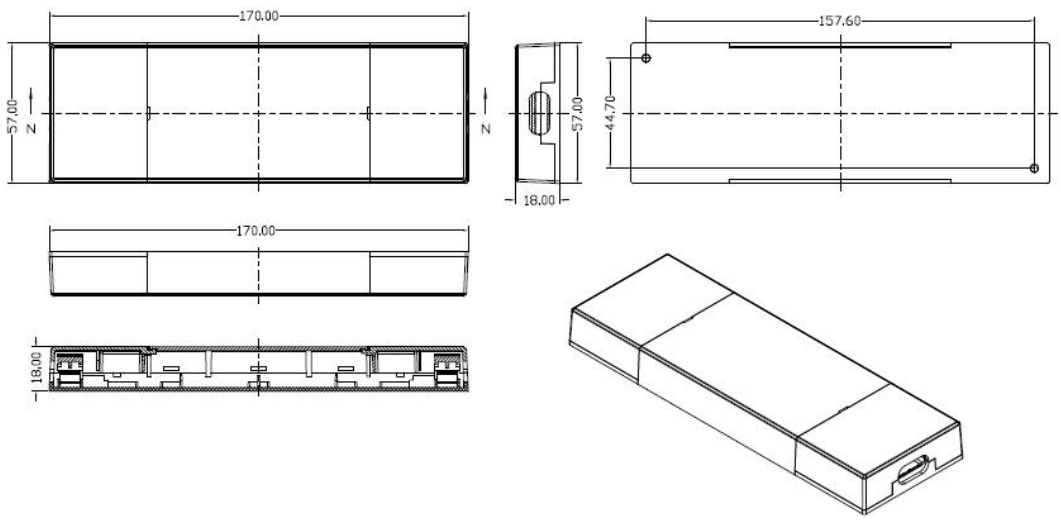




4. Life curve



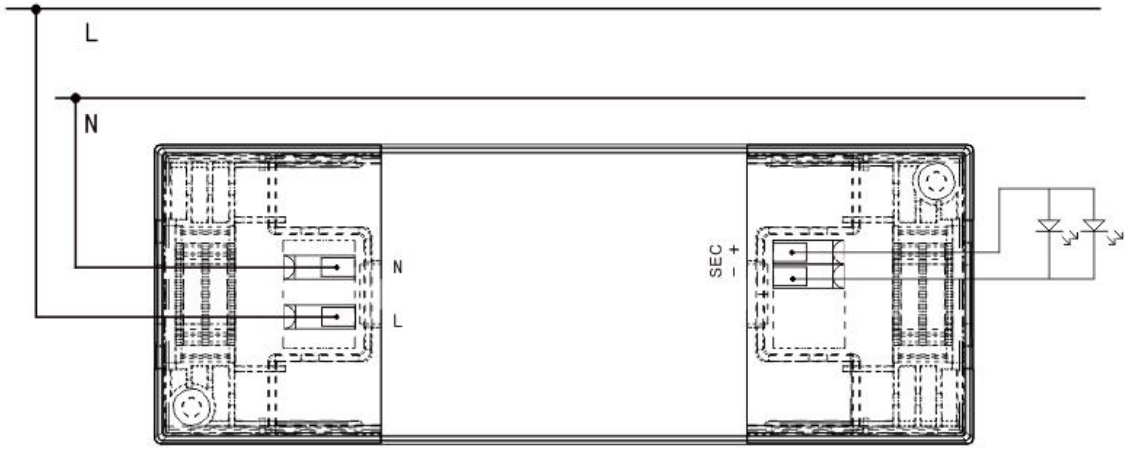
5. Dimension （Unit：mm）



6. Packing information

Paching way	Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
standard	450*240*200	65	0.168	10.92	11.45
Industrial		65	0.14	9.1	10.63

7. Wiring Diagram



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
2023-05-09	V1.0	Initial release.

KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid