



### Constant Voltage Dimmable Driver

Model: FV24W24CG 1-10



Model	Input Current	Input Power	PF	Output Power Range	Output Voltage	Output Current	Efficiency
FV24W24CG 1-10	≤0.15A	≤29w	≥0.95	0-24W	24V	0-1000mA	≥83%

\* Test result @220V, 50Hz, Full Load.




### 1. Parameters

category	Item	Technical Norm
Features	Output Type	Constant Voltage
	Dimming Type	1-10V /resistor /PWM
	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	≤0.15A (220VAC, full load)
	Input Power	≤29W (220VAC, full load)
	Power Factor	≥0.95 (220VAC, full load)
	THD	≤15% (220VAC, full load)
	No-load Power Consumption	≤0.5W @240VAC (DIM to off)
	Inrush Current	≤30A/280us (240VAC, full load)
	Connected quantity of 16A Breaker	50pcs/type B ;75pcs/type C @ 230Vac
Output	Output Voltage	24VDC+/-3%
	No Load Voltage	24.8VDC Max.
	Output PWM Frequency	1KHz
	Output Current	0 -1000mA
	Output Power	0-24W
	Efficiency	≥83% (220VAC, full load)
	Voltage Ripple	1.5% (220VAC, full load (Vmax-Vmin) / (Vmax+Vmin)
	Current Accuracy	N/A
	Start up Time	≤0.5S (220VAC, full load with 1-10V dimming)
Control Method	PWM dimming	1-10V port PWM dimming,duty cycle should be less than 99% (0.6KHz-1.2KHz)

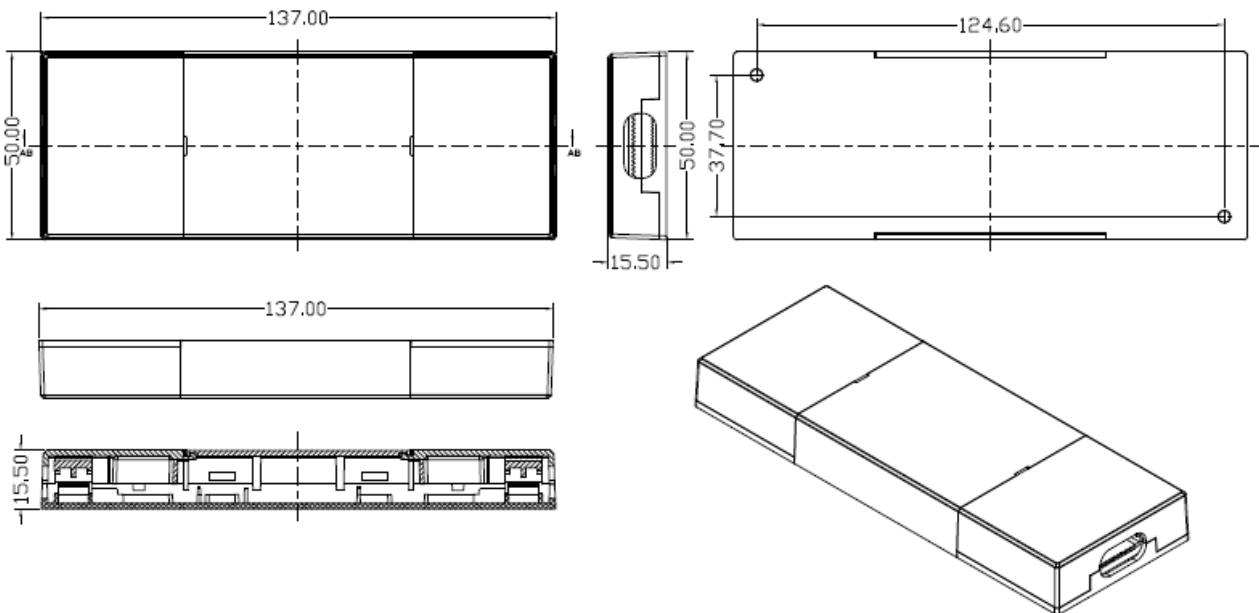
	1-10V (0-10V) dimming (active)	1-12V dimming voltage input
	1-10V (0-10V) dimming (passive)	1-10V dimming,200K resistor typical ( Port current 0.1mA typical)
	Dimming range	1-10V dimming: 0%-100%
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery
	No-load Protection	Auto Recovery
	Insulation voltage	3750V 5mA 60S between P-S
	Insulation resistance	>4M ohm @ 500VDC
	Leakage current	< 250 $\mu$ A,I/P to PE @230V input
Environment	Ta/Operation Temperature	-25....+45°C
	Ts/Storage Temperature	-40....+85°C
	Tc/Enclosure Temperature	85°C
	Humidity	10%....90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Independent
	PRI Wire preparation	0.75-1.5□
	SEC Wire preparation	0.5-0.75□
	Dimension	137*50*15.5mm (L*W*H)
Standards	Certification	complied to CE ENEC SAA
	Safety Standards	EN61347-1:2015,EN61347-2-13:2014/A1:2017, EN62493:2015, AS/NZS IEC61347.2.13:2013, AS/NZS 61347.1:2016
	EMC Standards	EN55015:2013/A1:2015,EN61000-3-2:2014, EN61000-3-3:2013,EN61547:2009
	Performance	EN62384
	Surge	L-N/2KV
Others	RoHS	complied to 2011/65/EU
	Life Time	50000h @ 45°C (Ta)/ 85°C (Tc)
	Warranty	5years , F.R. < 10000ppm

Remark: 1.All Parameters, if not specified, are measured at 230VAC/50Hz and 25°C 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.  
 3.Only for LED lamp,when using resistance load as constant voltage,please unload the light before loading.

## 2. Label

		<b>LED Dimmable Driver</b> <b>FV24W24CG 1-10</b> For LED modules only	
KGP Electronics GmbH Hueckstraße 19 DE-58511 Lüdenscheid		<b>Input Voltage: 220-240Vac</b> wire preparation	
<input type="checkbox"/> N <input type="checkbox"/> L	<b>Input Frequency: 50/60Hz</b> <b>Power Factor (<math>\lambda</math>): <math>\geq 0.95</math></b> <b><math>I_{in} \leq 0.15A</math></b> <b><math>U_{rated} = 24Vdc</math></b> <b><math>I_{range} = 0-1000mA</math></b> <b><math>P_{range} = 0-24W</math></b> <b><math>T_c: 85^\circ C</math></b> <b><math>T_a: -25to+45^\circ C</math></b>		<input type="checkbox"/> SEC+ <input type="checkbox"/> SEC- <input type="checkbox"/> DIM+ <input type="checkbox"/> DIM-
			

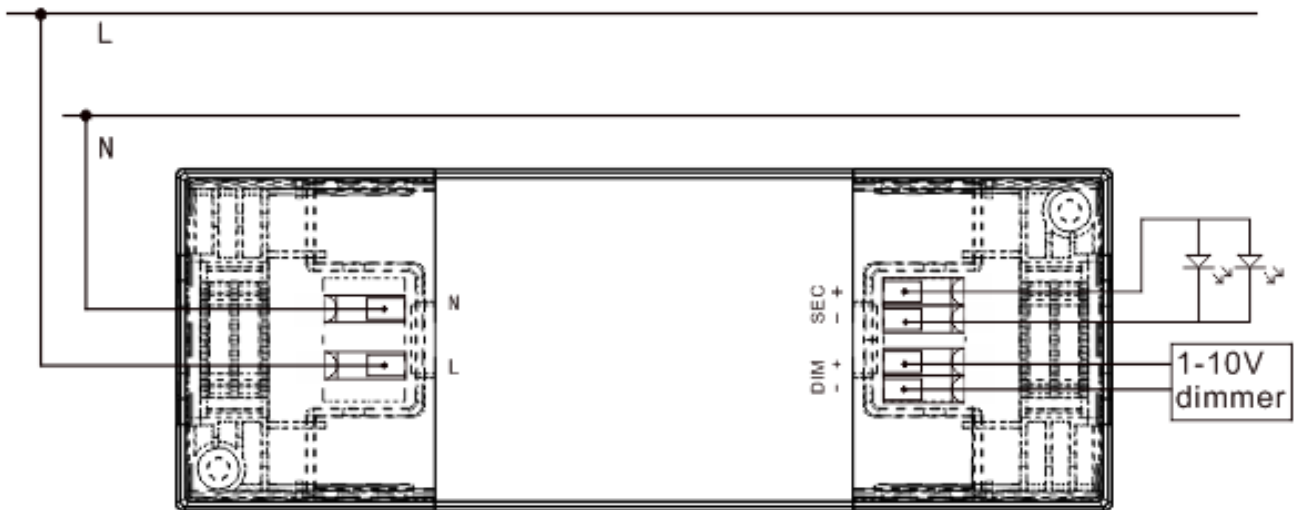
### 3. Dimension (Unit: mm)



### 4. Packing information

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
450*240*200	95	0.116	0.75	11.77

### 5. Wiring Diagram



**Fig. A: FV24W24CG 1-10**

**6. Dimming curve**

