



### Constant Voltage Driver

Model: FV90W24CG



Model	Input Current	Input Power	PF	Output Power Range	Output Voltage	Output Current	Efficiency
FV90W24CG	≤0.55A	≤100W	≥0.95	0-90W	24V	0-3750mA	≥90%

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

### 1. Parameters

category	Item	Technical Norm
Features	Output Type	Constant Voltage
	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	≤0.55A (220VAC, full load)
	Input Power	≤100W (220VAC, full load)
	Power Factor	≥0.95 (220VAC, full load)
	THD	≤10% (220VAC, full load)
	No-load Power Consumption	≤0.5W @240VAC
	Inrush Current	50A/240us typical (240VAC, full load)
	Connected quantity of 16A Breaker	10pcs/type B ; 18pcs/type C @ 230Vac
Output	Output Voltage	24VDC +/-3%
	No Load Voltage	25VDC Max.
	Output Current	0 -3750mA
	Output PWM Frequency	1.3KHz
	Max. Output Power	90W
	Efficiency	≥90% (220VAC, full load,at output terminals)
	Voltage Ripple	2% (220VAC, full load (Vmax-Vmin) / (Vmax+Vmin )
	Current Accuracy	N/A
	Start-up Time	≤0.5S (220VAC, full load)
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	90°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	0.5-1.5□
	Dimension	190*65*22mm (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)/ 90°C (Tc)
	Warranty	5years , F.R. < 10000ppm
<p>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.</p>		

## 2. Label

KGP Electronics GmbH  
 Hueckstraße 19  
 DE-58511 Lüdenscheid

**KGP**  
KGP Electronics GmbH  
Hueckstraße 19  
DE-58511 Lüdenscheid

**LED Driver** ●tc  
**FV90W24CG**  
For LED modules only

**N** Input Voltage: 220-240Vac  
 Input Frequency: 50/60Hz  
Power Factor(λ): ≥0.95

**L** I<sub>in</sub> : ≤0.55A  
U<sub>rated</sub> = 24Vdc  
I<sub>range</sub> = 0-3750mA  
P<sub>range</sub> = 0-90W  
T<sub>c</sub>: 90°C  
T<sub>a</sub>: -25to+45°C

wire preparation

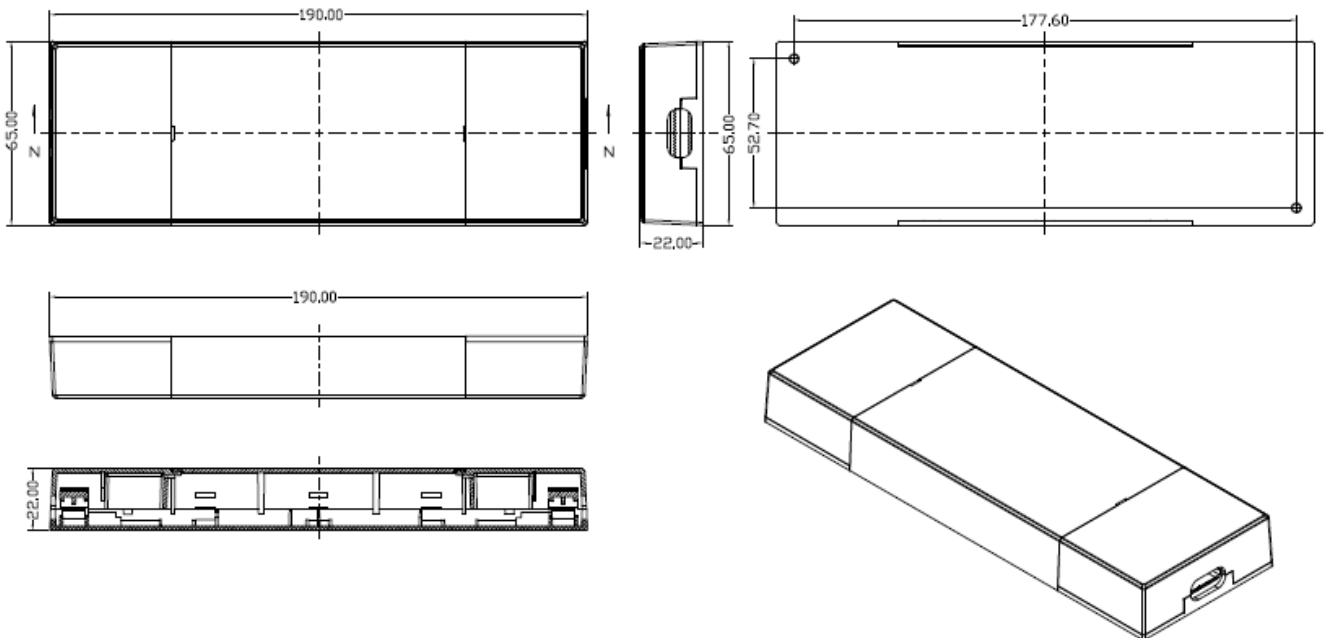
8mm	PRI 0.75-1.5
	SEC 0.5-1.5

SEC+

SEC-

SELV

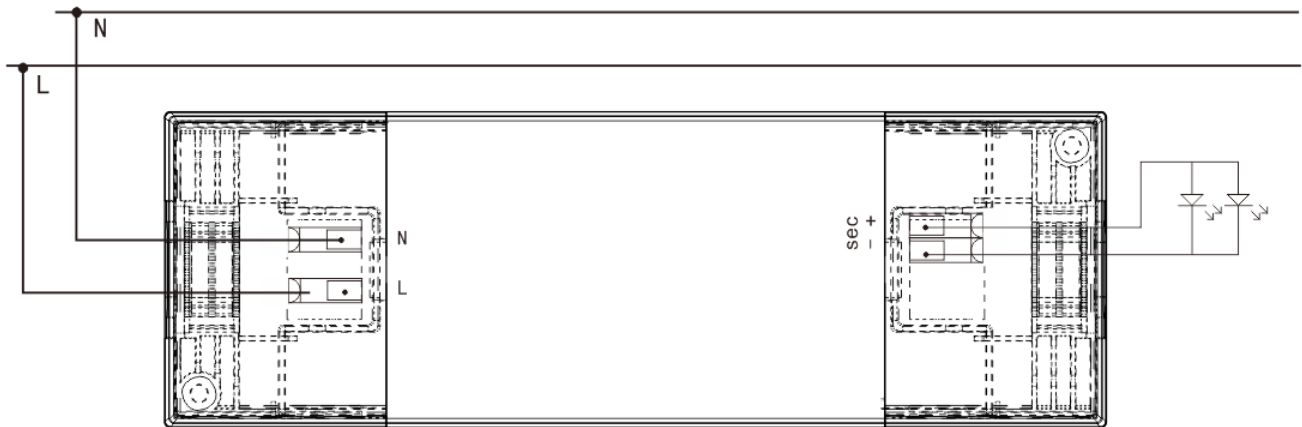
### 3. Dimension (Unit: mm)



### 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	40	0.254	0.75	10.91

### 5. Wiring Diagram

**Fig. A:FV90W24CG**