



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency	Output Voltage
LV60W24 1-10	2500mA	0.35A	70W	0-60W	0.95	87%	24V

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

### 1. Parameters

category	Item	Technical Norm
Features	Output Type	Constant Voltage
	Dimming Type	1-10V
	Output Features	Isolation
	IP Grade	IP20
	Insulation Class	Class I
Input	Rated Input Voltage	220-240VAC
	Range of Input Voltage	176-264VAC
	Range of DC Input Voltage	170-275VDC
	Frequency	50/60Hz
	Input Current	≤0.35A (230VAC, full load)
	Input Power	≤70W (230VAC, full load)
	Power Factor	≥0.95 (230VAC, full load)
	THD	≤15% (230VAC, full load)
	No-load Power Consumption	≤0.5W @230VAC (DIM to off)
	Inrush Current	≤21A/280us (230VAC, full load)
	Connected quantity of 16A Breaker	28pcs/type B ;45pcs/type C @ 230Vac
Output	Output Voltage	24VDC+/-3%
	No Load Voltage	24.8VDC Max.
	Output PWM Frequency	1KHz
	Output Current	0 -2500mA
	Max. Output Power	60W
	Efficiency	≥87% (230VAC, full load)
	Voltage Ripple	3% (230VAC, full load (Vmax-Vmin) / (Vmax+Vmin))
	Current Accuracy	N/A
	Start up Time	≤0.5S (230VAC, full load)

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	1-10V dimming (Port current 0.1mA typical for passive resistor dimmer)
	Dimming range	1-10V dimming: 0%-100%
Protection	Short Circuit Protection	Auto Recovery
	Overload Protection	Auto Recovery
	No-load Protection	Auto Recovery
	Insulation voltage	3000V 5mA 60S between P-S,1500V 5mA 60S between P-E
	Insulation resistance	>100M ohm @ 500VDC
	Leakage current	< 250 $\mu$ A, I/P to O/P or I/P to PE @230V input
Environment	Ta/Operation Temperature	-25....+50°C
	Ts/Storage Temperature	-40....+80°C
	Tc/Enclosure Temperature	80°C
	Humidity	10%....90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Push-in Terminal
	Installation	Build-in
	PRI Wire preparation	0.75-1.5 <sup>□</sup>
	SEC Wire preparation	0.75-1.5 <sup>□</sup>
	Dimension	250*31*21mm (L*W*H)
Standards	Certification	complied to ENEC/CE/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/1KV (L/N)-PE/2KV
Others	RoHS	complied to 2011/65/EU
	Life Time	50000h @50°C (Ta) / 80°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.</p> <p>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> <p>3. Only for LED lamp, when using resistance load as constant voltage, please unload the light before loading.</p>		

### 4. Label

<input type="checkbox"/> N <input type="checkbox"/> ⊕ <input type="checkbox"/> L  <b>wire preparation</b> 	 <b>KGP Electronics GmbH</b> Hueckstraße 19 DE-58511 Lüdenscheid	<b>LED Dimmable Driver</b> <b>LV60W24 1-10</b> Input Voltage:220-240Vac Input Frequency:50/60Hz Power Factor(λ):≥0.95 P <sub>range</sub> =0-60W I <sub>in</sub> :≤0.35A	U <sub>rated</sub> =24Vdc    ● tc I <sub>range</sub> =0-2500mA T <sub>c</sub> :80℃    T <sub>a</sub> :-25to+50℃ For LED modules only		SEC + □ i □ 1-10Vdc + □ - □ i □
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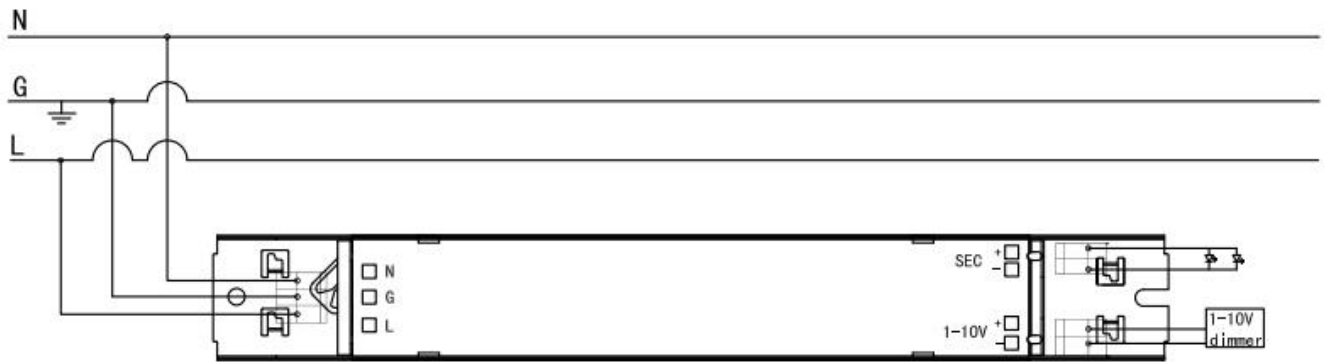
### 5. Dimension (Unit: mm)



### 6. Packing information

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
410*270*190	35	0.23	8.05	8.61

### 7. Wiring Diagram



**Fig. A: LV60W24 1-10**