

### Constant Voltage Driver

Model: XV40W12  
 XV40W24  
 XV40W36



**CE SELV IP67**   

Model	Input Current Type	Input Voltage Range	Rated Output Power	Rated Output Current	Rated Output Voltage	Typical Efficiency	Certification
XV40W12	≤0.22A	220-240VAC	40W	0-3.33A	12V	84%	CE
XV40W24	≤0.22A	220-240VAC	40W	0-1.66A	24V	87%	CE
XV40W36	≤0.22A	220-240VAC	40W	0-1.11A	36V	87%	CE

### 1. Parameters




Category	Item	Technical Norm
Features	Output Type	Constant Voltage
	IP Grade	IP67
	Insulation Class	Class I
	Installation	Independent
Input	Rated Input Voltage	220-240Vac
	Operating Input Voltage	176-264Vac
	Input Frequency	Rated 50/60Hz
	Power Factor	≥0.95 (230VAC, full load)
	THD	≤10% 230VAC,50-60Hz,100% loading ≤20% 220-240VAC,50-60Hz,80-100% loading
	Input Current	≤0.22A (230VAC, full load)
	Leakage Current	0.7mAmax @240Vac 50Hz, IEC61347-1
	Input Under/Over Voltage	No damage of wrong mains voltage: 0V AC to 340V AC, 10minutes maximum
	Standby Power	<0.5W
	Lightning Surge	4KV line-line; 4KV line-earth
Output	Ripple Current(< 120 Hz)	±5%
	PstLM	>1
	SVM	>1
	Current Accuracy	±5%
	Line Regulation	±5%
	Load Regulation	±5%
	Overshoot	Constant current type <110%Io




	Start-up Time	≤0.5S @230Vac
	Hold up Time	10mS typical @ 230VAC
	Efficiency	≥84%, 84% typical @230Vac, refer to Efficiency vs. Load curve
Protection	Short Circuit	Auto recovery
	Over Current	Auto recovery
	Over Voltage	Auto recovery
	Over Temperature	Auto recovery
Environment	Operating Ambient Temperature	-40°C~+60°C, 10%RH~100%RH, Rated Load
	Storage Temperature	-40°C~+85°C; 5%RH~100%RH
	Operating Case Temperature for Safety	-40°C~+60°C; 5%RH~100%RH
	Operating Case Temperature for Warranty	-40°C~+85°C; Case temperature for 5 years warranty. Humidity: 10% RH to 100% RH.
Standards	Certification	CE
	Safety Standards	GB 19510.14-2009; EN61347-2-13:2014 EN61347-1:2008+A1:2011+A2013
	EMC Standards	EN55015:2013+A1:2015
Others	MTBF	250 Khours, 10% failure rate,MIL-HDBK-217F
	Lifetime	50,000 hours, <75°C
	Dimensions	115X53X31.5mm(L*W*H)
	Net Weight	327g/PC
	Wiring	Input VDE: H05RN-F/3X1.0mm,Brown/Blue/(Yellow/Green) Output VDE: H05RN-F/2X1.0mm,Brown/Blue,
Notes: Unless specified, all the test results are measured in 25°C room temperature. * marked items are optional and contact with sales people to get the functions.		




## 2. Connected quantities of different current Breaker

TYPE	Connected quantities of different current Breaker						Input Voltage	Inrush Current	Time
	current (A)	10	13	16	20	25			
	Installation wire diameter	1.5mm <sup>2</sup>	2.5mm <sup>2</sup>	2.5mm <sup>2</sup>	4mm <sup>2</sup>	4mm <sup>2</sup>			
TYPE B		14	18	22	27	34	@230VAC	44	288us
TYPE C		22	28	35	44	55			
TYPE D		35	45	56	70	87			

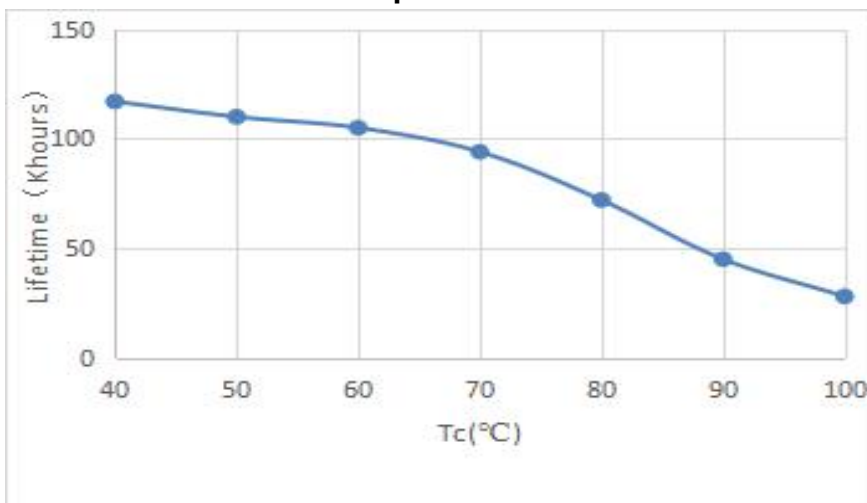
### 3. Label

<p><b>INPUT</b></p> <p><input type="radio"/> ACL BN</p> <p><input type="radio"/> ACN BU</p> <p><input checked="" type="radio"/> ---GN/YR</p> <p>MADE IN CHINA www.kg-power.com S/N:</p>	<p><b>KGP LED Driver</b></p> <p>KGP Electronics GmbH Hueckstraße 19 DE-58511 Lüdenscheid</p> <p><b>MODEL:XV40W12</b></p> <p>INPUT:220-240V~Max.0.22A 50/60Hz PF:0.95 <span style="float: right;">●tc90°C</span></p> <p>OUTPUT:12V --- 0-3.33A Max.40W</p> <p>Suitable for Dry, Damp and Wet Locations. <span style="float: right;">ta:60°C Input:220-240V~</span></p> <p>For LED Module only</p> <p><b>CE SELV IP67</b>   </p>	<p><b>OUTPUT</b></p> <p>Vo+ ---BN <input type="radio"/></p> <p>Vo- ---BU <input type="radio"/></p>
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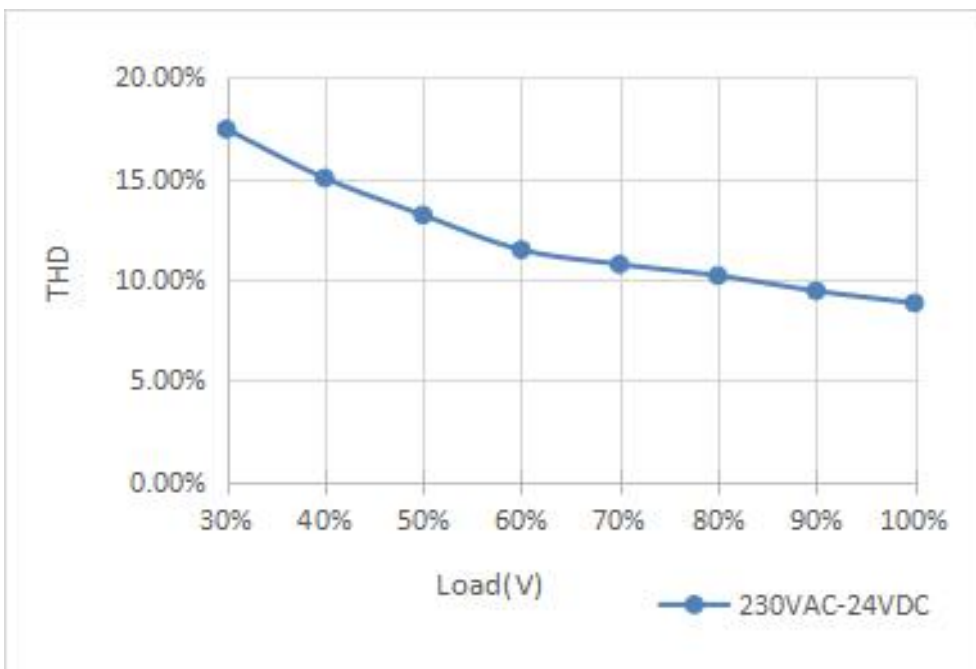
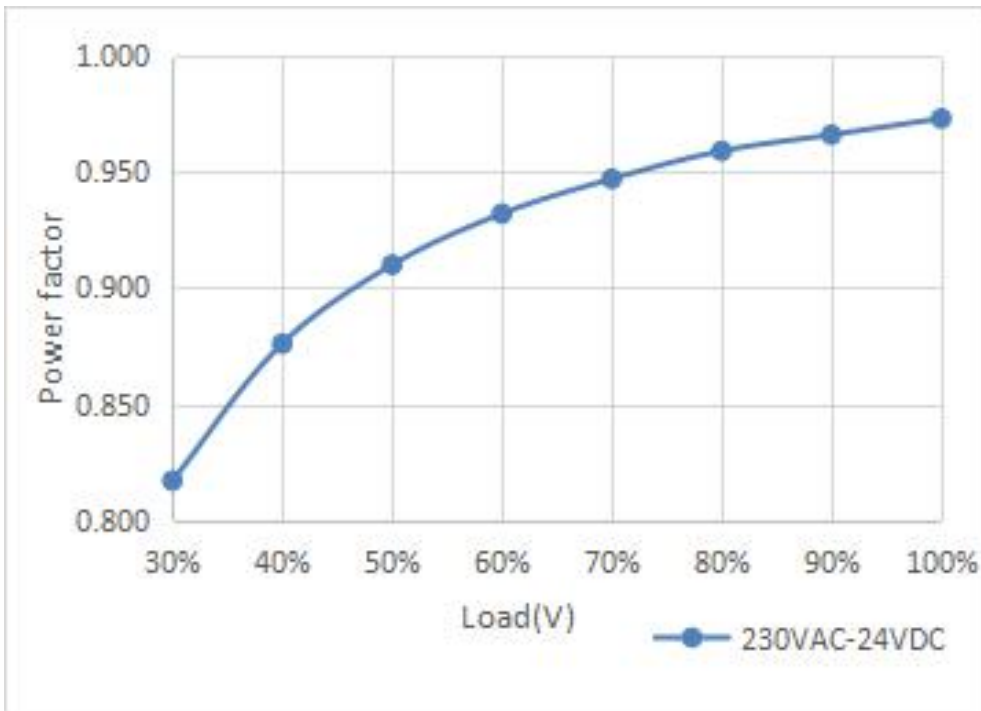
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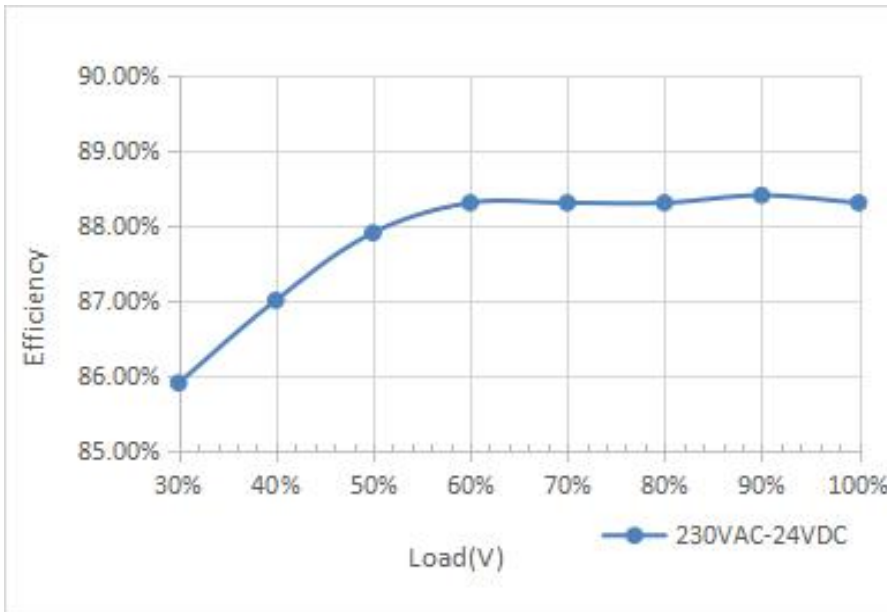
<p><b>INPUT</b></p> <p><input type="radio"/> ACL BN</p> <p><input type="radio"/> ACN BU</p> <p><input checked="" type="radio"/> ---GN/YR</p> <p>MADE IN CHINA www.kg-power.com S/N:</p>	<p><b>KGP LED Driver</b></p> <p>KGP Electronics GmbH Hueckstraße 19 DE-58511 Lüdenscheid</p> <p><b>MODEL:XV40W36</b></p> <p>INPUT:220-240V~Max.0.22A 50/60Hz PF:0.95 <span style="float: right;">●tc90°C</span></p> <p>OUTPUT:36V --- 0-1.11A Max.40W</p> <p>Suitable for Dry, Damp and Wet Locations. <span style="float: right;">ta:60°C Input:220-240V~</span></p> <p>For LED Module only</p> <p><b>CE SELV IP67</b>   </p>	<p><b>OUTPUT</b></p> <p>Vo+ ---BN <input type="radio"/></p> <p>Vo- ---BU <input type="radio"/></p>
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### 4. Lifetime vs. Case Temperature



### 5. Power Factor, THD and Efficiency vs. Load



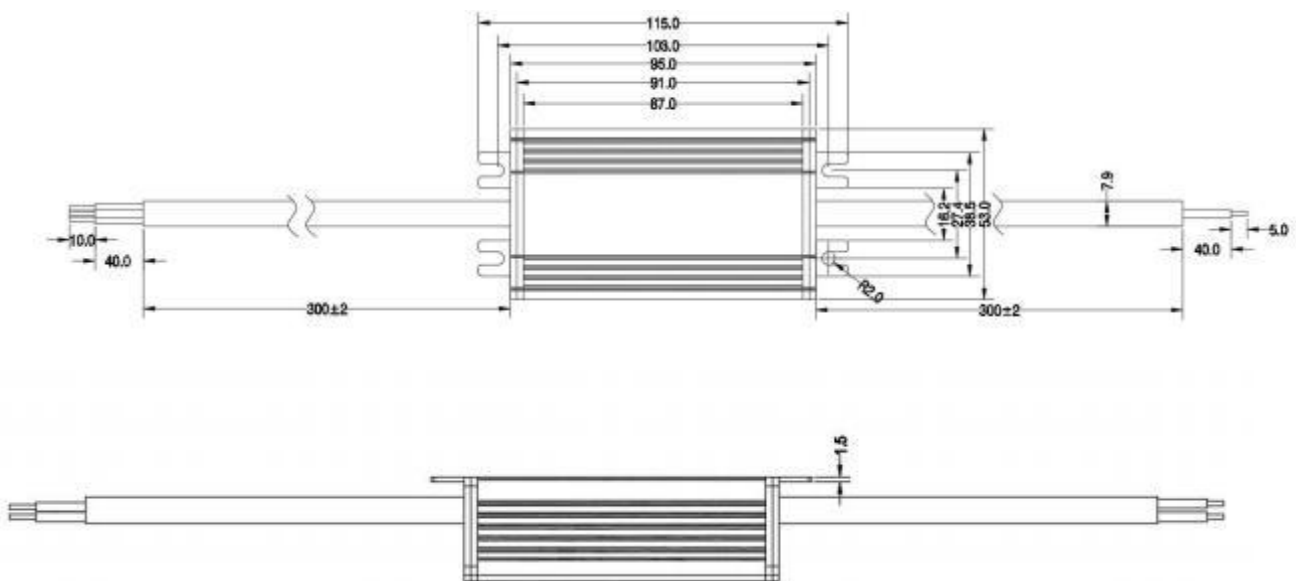


### 6. Packing information

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
447*240*200	36Pcs	0.327*	11.77*	12.77*

### 7. Mechanical Design

- VDE Cable



### 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
- 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.)