XV150WXX

Constant Voltage Driver

Model: XV150W12
XV150W24
XV150W36
XV150W48

CE SELV IP67

Model	Input Current Type	Input Voltage Range	Rated Output Power	Rated Output Current	Rated Output Voltage	Typical Efficiency	Certification
XV150W12	⩽1A	220-240VAC	150W	0-12.5A	12V	90%	CE
XV150W24	⩽1A	220-240VAC	150W	0-6.25A	24V	91%	CE
XV150W36	⩽1A	220-240VAC	150W	0-4.16A	36V	91%	CE
XV150W48	⩽1A	220-240VAC	150W	0-3.13A	48V	92%	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	⩽1A (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	6KV line-line; 10KV line-earth
Output	Ripple Current(< 120 Hz)	±5%
	PstLM	≤1
	SVM	≤0.4
	Current Accuracy	±5%
	Line Regulation	±5%
	Load Regulation	±5%

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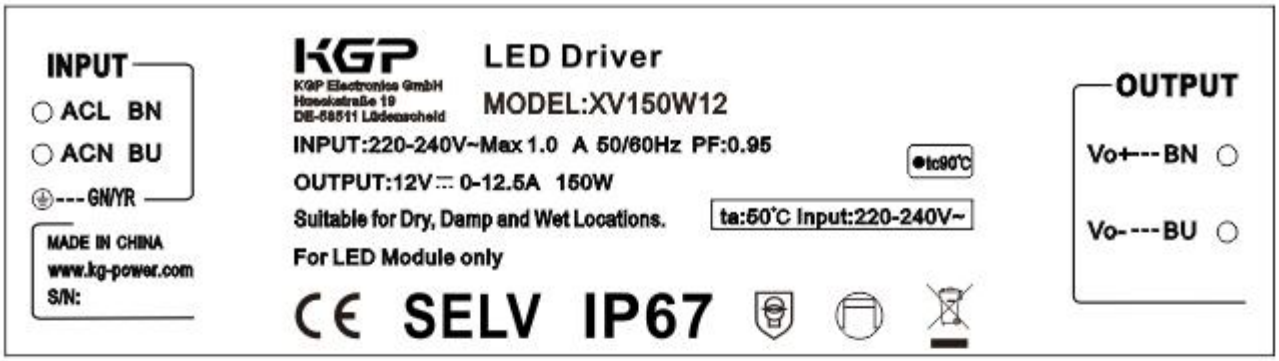
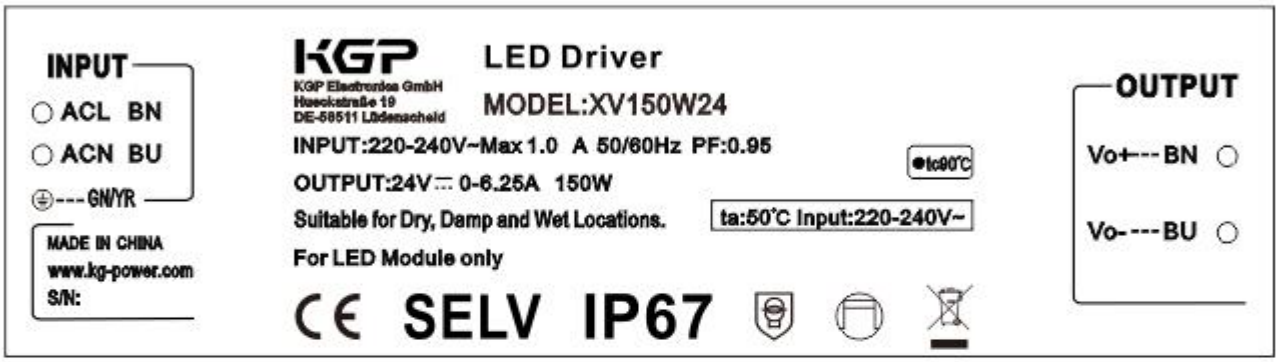
	Overshoot	Constant current type <110%Io
	Start-up Time	≤0.5S @230Vac
	Hold up Time	10mS typical @ 230VAC
	Efficiency	≧90%, 91%，92% typical @230Vac, refer to Efficiency vs. Load curve
Protection	Short Circuit	Auto recovery
	Over Current	Auto recovery
	Over Voltage	Auto recovery
	Over Temperature	Auto recovery
Environment	Operating Ambient Temperature	-40℃~+50 ℃, 10%RH~100%RH, Rated Load
	Storage Temperature	-40℃～+85℃; 5%RH～100%RH
	Operating Case Temperature for Safety	-40℃～+50℃; 5%RH～100%RH
	Operating Case Temperature for Warranty	-40℃～+85℃; 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, Ta<75℃
	Dimensions	165×66.4x36.7mm(L*W*H)
	Net Weight	710g/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℃ room temperature. * marked items are optional and contact with sales people to get the functions.		

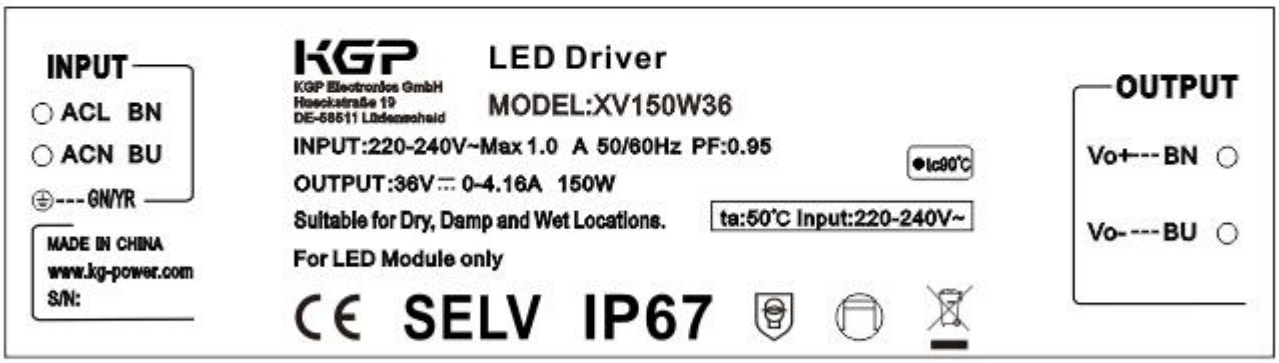
2. Connected quantities of different current Breaker

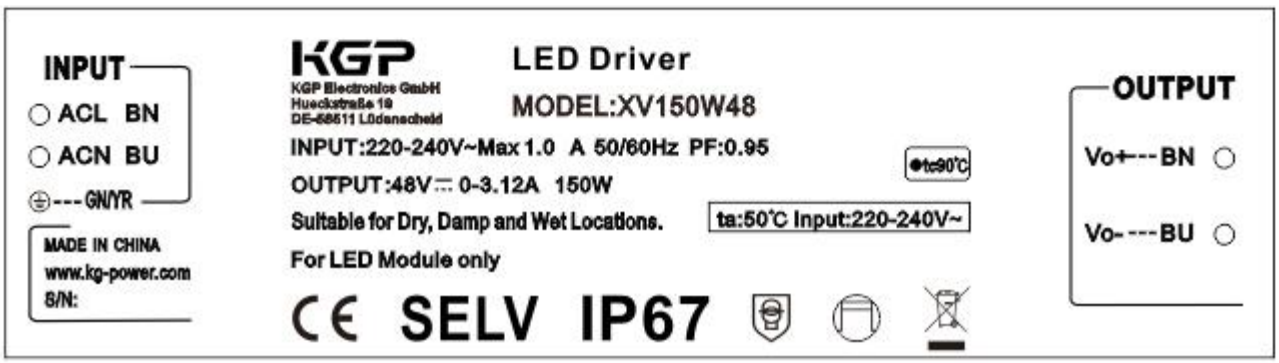
TYPE	Connected quantities of different current Breaker						Input Voltage	Inrush Current	Time
	current（A）	10	13	16	20	25			
	Installation wire diameter	1.5mm²	2.5mm²	2.5mm²	4mm²	4mm²			
TYPE B		14	18	22	27	34	@230VAC	44	288us
TYPE C		22	28	35	44	55			
TYPE D		35	45	56	70	87			

3. Label

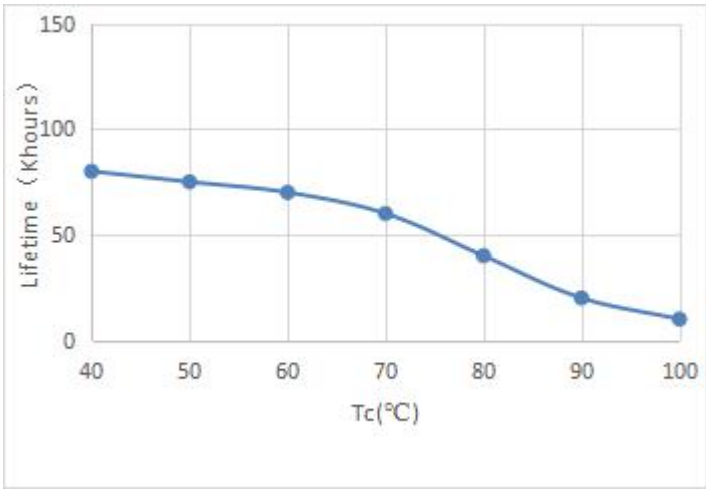

INPUT
ACL BN
ACN BU
GN/YR
MADE IN CHINA
www.kg-power.com
S/N:
KGP
KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid
LED Driver
MODEL:XV150W12
INPUT:220-240V~Max 1.0 A 50/60Hz PF:0.95
OUTPUT:12V⎓ 0-12.5A 150W
Suitable for Dry, Damp and Wet Locations.
For LED Module only
tc90°C
ta:50°C Input:220-240V~
CE SELV IP67
OUTPUT
Vo+ BN
Vo- BU


INPUT
ACL BN
ACN BU
GN/YR
MADE IN CHINA
www.kg-power.com
S/N:
KGP
KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid
LED Driver
MODEL:XV150W24
INPUT:220-240V~Max 1.0 A 50/60Hz PF:0.95
OUTPUT:24V⎓ 0-6.25A 150W
Suitable for Dry, Damp and Wet Locations.
For LED Module only
tc90°C
ta:50°C Input:220-240V~
CE SELV IP67
OUTPUT
Vo+ BN
Vo- BU


INPUT
ACL BN
ACN BU
GN/YR
MADE IN CHINA
www.kg-power.com
S/N:
KGP
KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid
LED Driver
MODEL:XV150W36
INPUT:220-240V~Max 1.0 A 50/60Hz PF:0.95
OUTPUT:36V⎓ 0-4.16A 150W
Suitable for Dry, Damp and Wet Locations.
For LED Module only
tc90°C
ta:50°C Input:220-240V~
CE SELV IP67
OUTPUT
Vo+ BN
Vo- BU

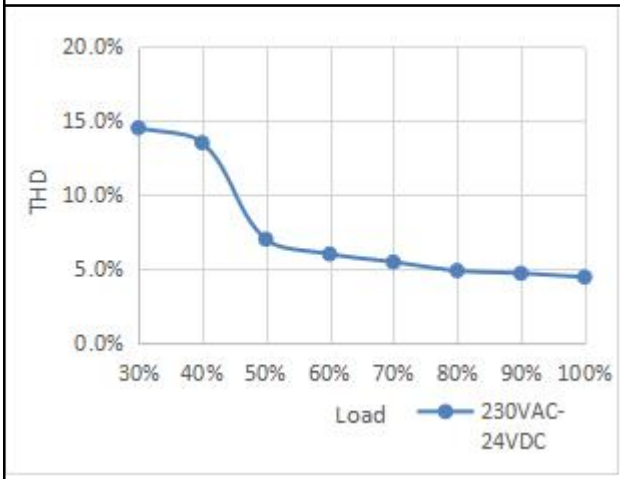

INPUT
ACL BN
ACN BU
GN/YR
MADE IN CHINA
www.kg-power.com
S/N:
KGP
KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid
LED Driver
MODEL:XV150W48
INPUT:220-240V~Max 1.0 A 50/60Hz PF:0.95
OUTPUT:48V⎓ 0-3.12A 150W
Suitable for Dry, Damp and Wet Locations.
For LED Module only
tc90°C
ta:50°C Input:220-240V~
CE SELV IP67
OUTPUT
Vo+ BN
Vo- BU

4. Lifetime vs. Case Temperature

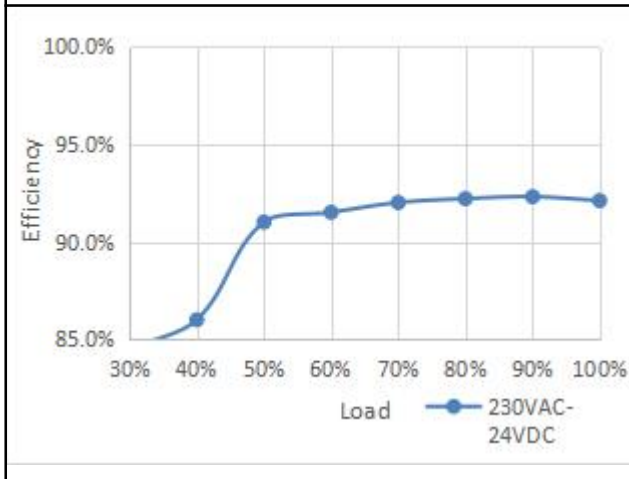


5. Power Factor, THD and Efficiency vs. Load

Typical THD V.S load



Typical Efficiency V.S load



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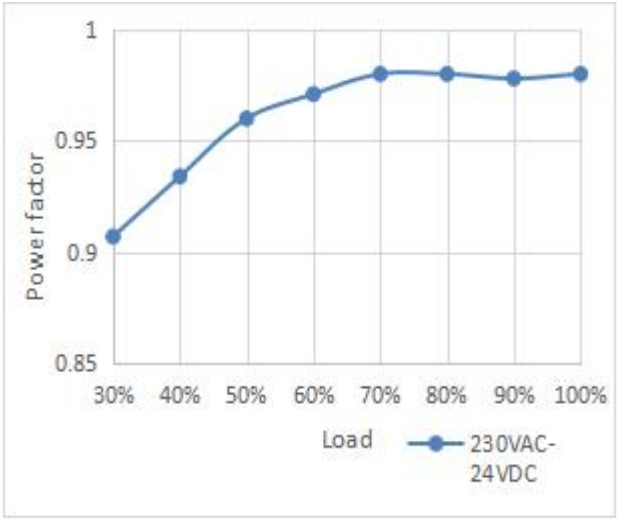
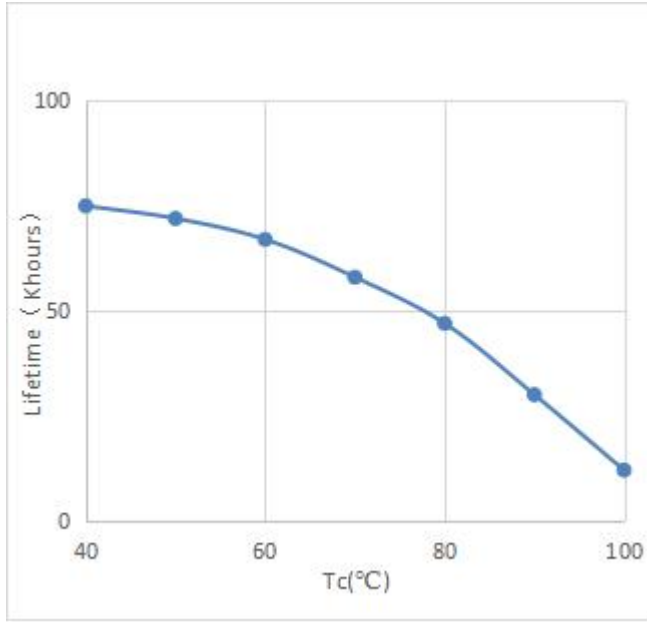
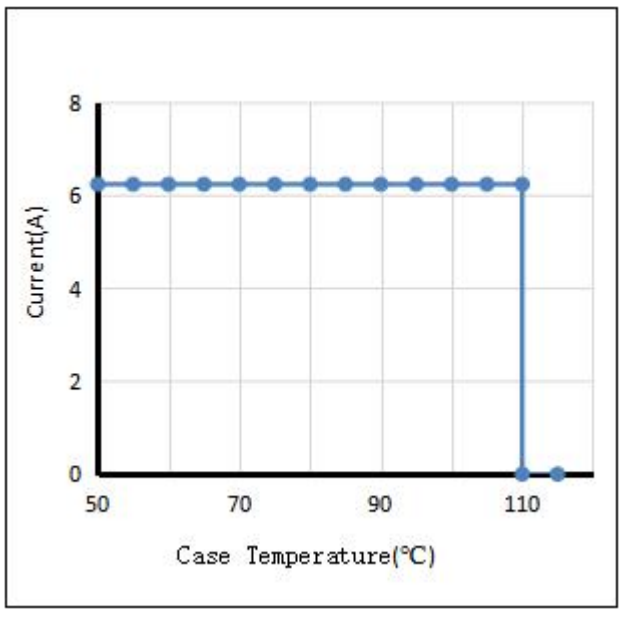
Typical Power factor V.S load



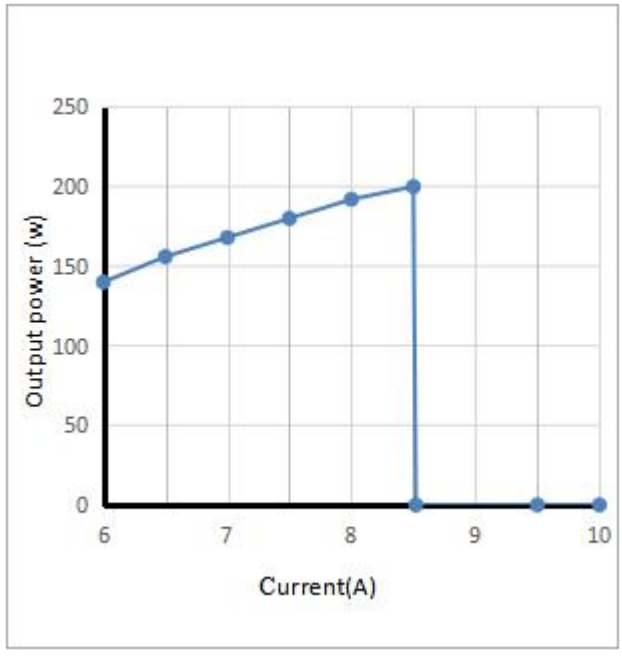
Typical Lifetime V.S Tc



OTP curve(Tc V.S output current)



Typical output power V.S Tc at OCP condition



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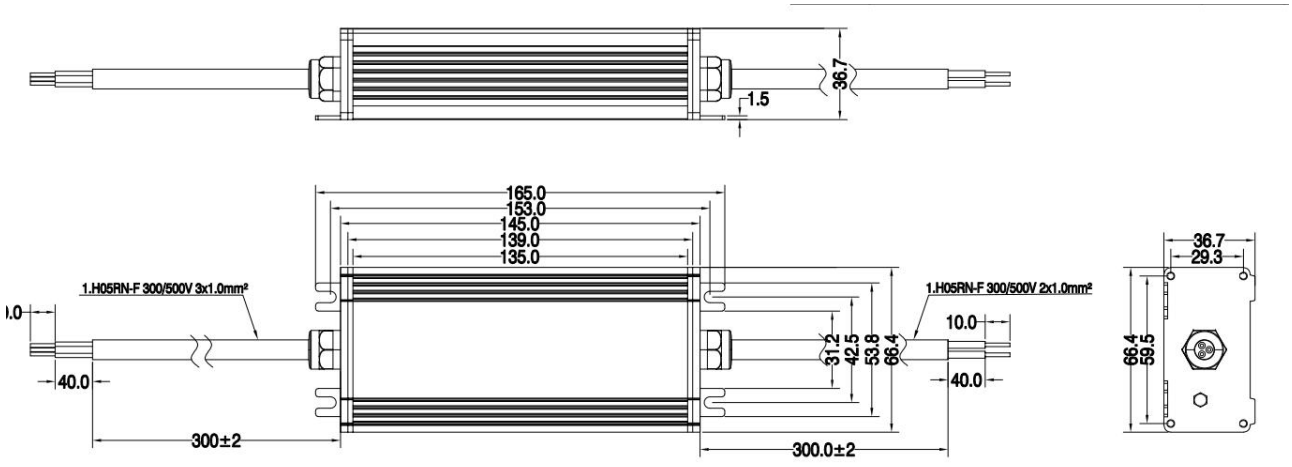
6. Packing information

Carton L*W*H(mm)	Pcs/Carton	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight / Carton(kg)
410*220*210	24Pcs	0.710*	17.04*	17.6*

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.)

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