



Constant Current Driver

Model:XC50W530-1400
XC50W1450-2100
XC75W700-1050
XC75W1300-2100
XC100W700-1050
XC100W1750-2780



Model	Output Current	Input Current	Input Power	Output Power Range	PF	Efficiency (*Typical)	Output Voltage	No load Voltage
XC50W530-1400	1400mA	≤0.30A	56W	11.7-50W	0.95	89%	22~54V	64V
XC50W1450-2100	2100mA	≤0.30A	56W	11.7-50W	0.95	88%	22~34V	46V
XC75W700-1050	1050mA	≤0.45A	89W	37-75W	0.95	91%	53~107V	119V
XC75W1300-2100	2100mA	≤0.45A	89W	35-75W	0.95	89%	27-56V	64V
XC100W700-1050	1050mA	≤0.60A	115W	49.7-100W	0.95	91%	71-142V	155V
XC100W1750-2780	2780mA	≤0.60A	115W	47.25-100W	0.95	91%	27-56V	64V

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

1. Parameters

Category	Item	Technical Norm
Features	Output Type	Constant Current
	Output Features	Isolation
	IP Grade	IP67
	Insulation Class	Class I
Input	Rated Input Voltage	100-277VAC
	Range of Input Voltage	100-305VAC or 142-431VDC
	Frequency	0/50/60Hz
	Input Current	≤0.30A @50W(230VAC, full load) ≤0.45A @75W(230VAC, full load) ≤0.60A @100W(230VAC, full load)
	Input Power	≤56W @50W(230VAC, full load) ≤89W @75W(230VAC, full load) ≤115W @100W(230VAC, full load)
	Power Factor	≥0.95 (230VAC, full load)
	THD	≤10% (230VAC, full load)
	No-load Power Consumption	/
Output	Inrush Current	≤80A/200us (230VAC, full load)
	Output Voltage Range	22-54VDC@XC50W530-1400 22-34VDC@XC50W1450-2100

		53-107VDC@XC75W700-1050 27-56VDC@XC75W1300-2100 71-142VDC@XC100W700-1050 27-56VDC@XC100W1750-2780
	No Load Voltage	64VDC Max.@XC50W530-1400 46VDC Max.@XC50W1450-2100 119VDC Max.@XC75W700-1050 64VDC Max.@XC75W1300-2100 155VDC Max.@XC100W700-1050 64VDC Max.@XC100W1750-2780
	Output Current	530-1400mA @XC50W530-1400(adjustable) 1450-2100mA @XC50W1450-2100(adjustable) 350-1050mA @XC75W700-1050(adjustable) 650-2100mA @XC75W1300-2100(adjustable) 350-1050mA@XC100W700-1050(adjustable) 875-2780mA@XC100W1750-2780(adjustable)
	Max. Output Power	50W @XC50W530-1400 50W @XC50W1450-2100 75W @XC75W700-1050 75W @XC75W1300-2100 100W @XC100W700-1050 100W @XC100W1750-2780
	Efficiency	≥89%@XC50W530-1400(230VAC, full load) ≥88%@XC50W1450-2100(230VAC, full load) ≥91%@XC75W700-1050(230VAC, full load) ≥89%@XC75W1300-2100(230VAC, full load) ≥91%@XC100W700-1050(230VAC, full load) ≥91%@XC100W1750-2780(230VAC, full load)
	Current Ripple(< 120 Hz)	±5%
	PstLM	≤1
	SVM	≤0.4
	Current Accuracy	±5%
	Line Regulation	±5%
	Load Regulation	±5%
	Started Delay Time	≤0.5S(230VAC, full load) ≤1.2S(115VAC, full load)
Protection	Short Circuit Protection	Auto Recovery
	Over-temperature protection	When the TC point temperature of the casing exceeds 90°C, it switches to a current reduction mode, and the current automatically resumes once the over-temperature is cleared.
	AC Over Voltage Protection	320-380Vac (When the input voltage exceeds the protection voltage, the output voltage will be shut off,

		and it can automatically recover after the abnormal input condition is removed)
	AC Under Voltage protection	75-85Vac (When the input voltage falls below the protection voltage, the output voltage will be cut off and can automatically recover after the abnormal input condition is removed)
	Overload Protection	Auto Recovery
	No-load Protection	Auto Recovery
	Insulation voltage	I/P-O/P: 3750Vac/5mA/60S I/P-FG: 1800Vac/5mA/60S O/P-FG: 1500Vac/5mA/60S
	Insulation resistance	>100M ohm @ 500VDC/+25°C/70%RH
	Leakage current	I/P-O/P: <0.75mA
Environment	Ta/Operation Temperature	-40....+50°C@Vin100-200V -40....+55°C@Vin200-277V
	Ts/Storage Temperature	-40....+85°C
	Tc/Enclosure Temperature	+90 °C
	Humidity	10%....90%RH
	Atmosphere	86-108KPa
Construction	Connection Method	Cable
	Installation	Independent
	PRI Wire preparation	3*1.0mm ² /395mm
	SEC Wire preparation	2*0.75mm ² /295mm@50W,75W 2*1.0mm ² /295mm@100W
	Dimension	126*41*29mm (L*W*H)@50W 143*49*33mm (L*W*H)@75W 164*53*33mm (L*W*H)@100W
Standards	Certification	CE
	Safety Standards	EN 61347-1:2015/A1:2021 EN 61347-2-13:2014/A1:2017 EN IEC 62384:2020 EN 62493:2015 AS61347.2.13:2018 AS/NZS61347.1:2016 Inc A1 BS EN 61347-1:2015/A1:2021 BS EN 61347-2-13:2014/A1:2017 BS EN 62493:2015 BS EN IEC 62384:2020
	EMC Standards	EN IEC 55015:2019 EN IEC 55015:2019/A11:2020 EN IEC 61000-3-2:2019/A1:2021 EN 61000-3-3:2013/A2:2021 EN 61547:2009
	Performance	EN62384:2020
	Surge	L-N:6kV @50W,75W,100W L/N-Earth:6kV @50W

		L/N-Earth:10kV @75W,100W
Others	RoHS	complied to 2011/65/EU
	REACH	EU Regulation (EC) No 1907/2006
	Life Time	50000h @Tc<+80°C
	Warranty	5years ,F.R. < 100ppm
	Noise	≤ 24dB @Background noise ≤18dB ,Interval≥15cm

Remark:

- All Parameters, if not specified, are measured at 230VAC/50Hz and 25°C ambient temperature.
- LED Driver is a component of the luminaires, Luminaires and wire layout will affect the EMC, please check the EMC with end products again.
- Do not install upside down.

2. Connected quantities of different current Breaker

TYPE	Connected quantities of different current Breaker						Input Voltage (V)	Inrush Current(A)	Time (μs)
	current (A)	10	13	16	20	25			
	Installation wire diameter	1.5mm ²	2.5mm ²	2.5mm ²	4mm ²	4mm ²			
TYPE B	8	10	12	15	19	@230VAC	80	200	
TYPE C	12	16	19	24	30				
TYPE D	19	25	31	38	48				

3. Label

XC50W530-1400

INPUT

- ACL BN
- ACN BU
- ⊕ GNYR

KGP LED Driver
KGP Electronics GmbH
Hueckstraße 19
DE-58511 Lüdenscheid

MODEL:XC50W530-1400

INPUT:100-277V~Max.0.6A 50/60Hz PF≥0.95
OUTPUT:22-54V=0.53-1.4A
Uout:Max.64VDC Max.50W
Suitable for Dry, Damp and Wet Locations.
Constant Current Type for LED Only
ta:50°C@Vin100-200V ta:55°C@Vin200-277V tc:90°C

EAC CE SELV IP67

OUTPUT

- Io ADJ. ⚙️
- Vo+BN •
- Vo- BU •

XC50W1450-2100

INPUT	KGP LED Driver <small>KGP Electronics GmbH Hueckstraße 19 DE-58511 Lüdenscheid</small>	MODEL:XC50W1450-2100	OUTPUT
<ul style="list-style-type: none"> • ACL BN • ACN BU ⊕ GN/YR 	<p>INPUT:100-277V~Max.0.6A 50/60Hz PF≥0.95 OUTPUT:22-34V=1.45-2.1A Uout:Max.46VDC Max.50W Suitable for Dry, Damp and Wet Locations. Constant Current Type for LED Only ta:50°C@Vin100-200V ta:55°C@Vin200-277V tc:90°C</p>	<p>io ADJ. </p> <p>Vo+BN •</p> <p>Vo- BU •</p>	
<p>EAC CE SELV IP67 </p>			

XC75W700-1050

INPUT	KGP LED Driver <small>KGP Electronics GmbH Hueckstraße 19 DE-58511 Lüdenscheid</small>	MODEL:XC75W700-1050	OUTPUT
<ul style="list-style-type: none"> • ACL BN • ACN BU ⊕ GN/YR 	<p>INPUT:100-277V~Max.1.0A 50/60Hz PF≥0.95 OUTPUT:53-107V=0.7-1.05A Uout:Max.119VDC Max.75W Suitable for Dry, Damp and Wet Locations. Constant Current Type for LED Only ta:50°C@Vin100-200V ta:55°C@Vin200-277V tc:90°C</p>	<p>io ADJ. </p> <p>Vo+BN •</p> <p>Vo- BU •</p>	
<p>EAC CE SELV IP67 </p>			



XC75W1300-2100

INPUT	KGP LED Driver <small>KGP Electronics GmbH Hueckstraße 19 DE-58511 Lüdenscheid</small>	OUTPUT
<ul style="list-style-type: none"> • ACL BN • ACN BU ⊕ GN/YR 	<p>MODEL:XC75W1300-2100</p> <p>INPUT:100-277V~Max.1.0A 50/60Hz PF≥0.95</p> <p>OUTPUT:27-56V=1.3-2.1A</p> <p>Uout:Max.64VDC Max.75W</p> <p>Suitable for Dry, Damp and Wet Locations.</p> <p>Constant Current Type for LED Only</p> <p>ta:50°C@Vin100-200V ta:55°C@Vin200-277V tc:90°C</p> <p>EAC CE SELV IP67</p>	<ul style="list-style-type: none"> Io ADJ. Vo+BN • Vo- BU •

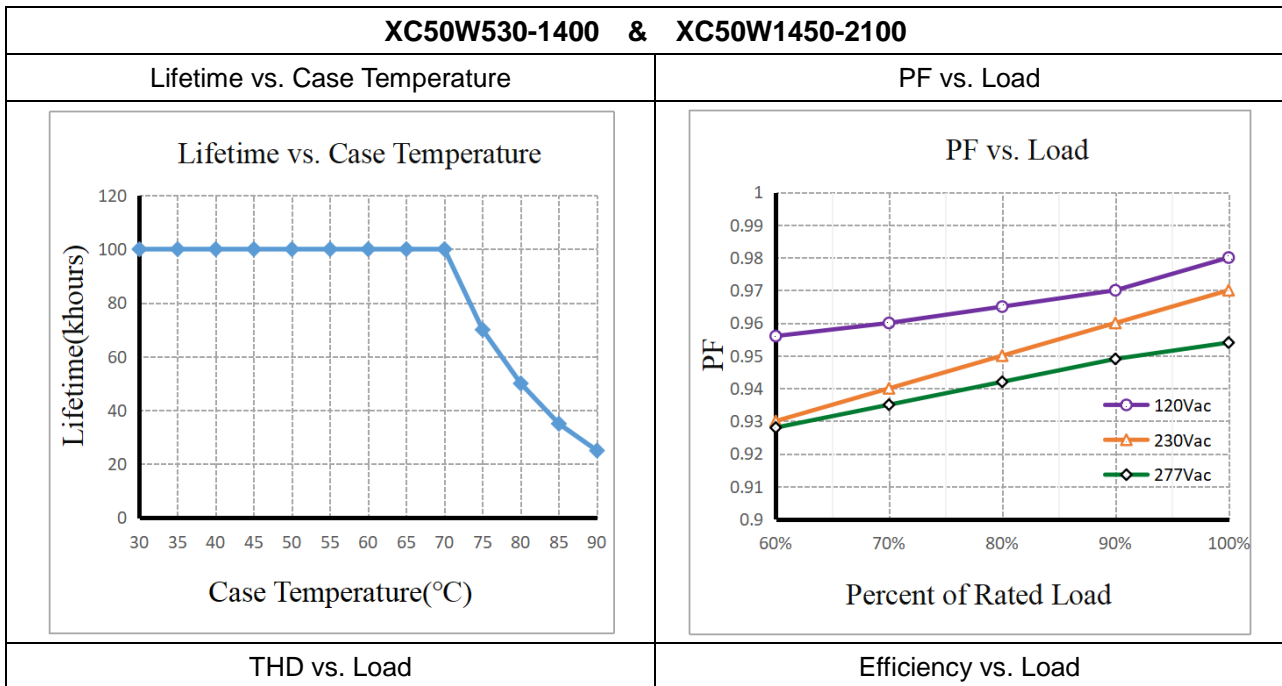
XC100W700-1050

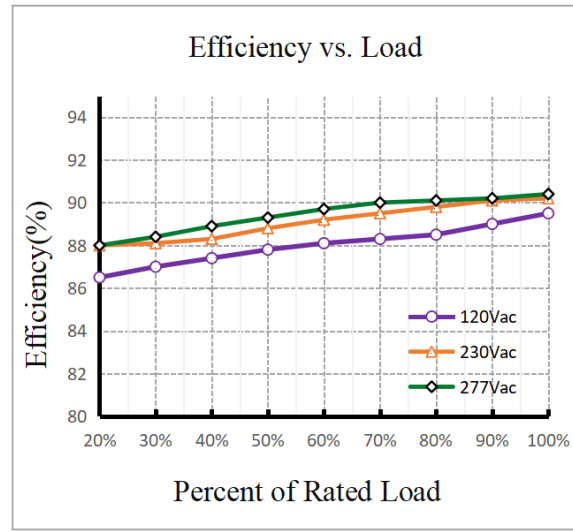
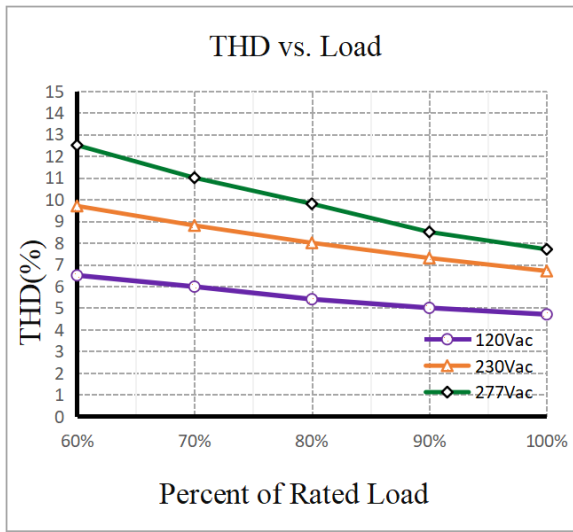
INPUT	KGP LED Driver <small>KGP Electronics GmbH Hueckstraße 19 DE-58511 Lüdenscheid</small>	OUTPUT
<ul style="list-style-type: none"> • ACL BN • ACN BU ⊕ GN/YR 	<p>MODEL:XC100W700-1050</p> <p>INPUT:100-277V~Max.1.1A 50/60Hz PF≥0.95</p> <p>OUTPUT:71-142V=0.7-1.05A</p> <p>Uout:Max.155VDC Max.100W</p> <p>Suitable for Dry, Damp and Wet Locations.</p> <p>Constant Current Type for LED Only</p> <p>ta:50°C@Vin100-200V ta:55°C@Vin200-277V tc:90°C</p> <p>EAC CE IP67</p>	<ul style="list-style-type: none"> Io ADJ. Vo+BN • Vo- BU •

XC100W1750-2780

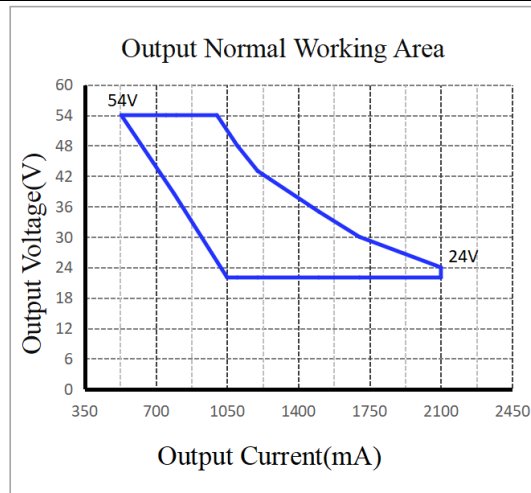
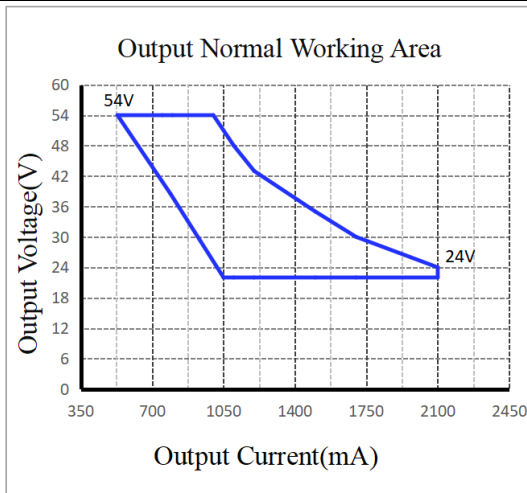
INPUT	 LED Driver <small>KGP Electronics GmbH Hueckstraße 19 DE-58511 Lüdenscheid</small>	OUTPUT
<ul style="list-style-type: none"> • ACL BN • ACN BU ⊕ GN/YR 	<p>MODEL:XC100W1750-2780</p> <p>INPUT:100-277V~Max.1.1A 50/60Hz PF≥0.95</p> <p>OUTPUT:27-56V=1.75-2.78A</p> <p>Uout:Max.64VDC Max.100W</p> <p>Suitable for Dry, Damp and Wet Locations.</p> <p>Constant Current Type for LED Only</p> <p>ta:50°C@Vin100-200V ta:55°C@Vin200-277V tc:90°C</p>	<p>Io ADJ. </p> <p>Vo+BN •</p> <p>Vo- BU •</p>
		

4. Electrical values





Output Power Window

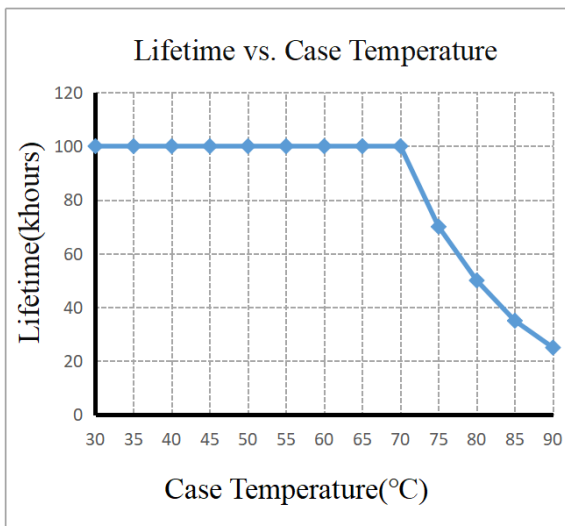


22-54(V)	Output									
Load operating voltage	22V	27V	30V	36V	40V	43V	46V	51V	54V	
supply current I _o _MAX	1.4A	1.4A	1.4A	1.4A	1.25A	1.16A	1.80A	0.98A	0.92A	
input power P _i _MAX	30.8W	37.5W	42W	50W	50W	50W	50W	50W	50W	

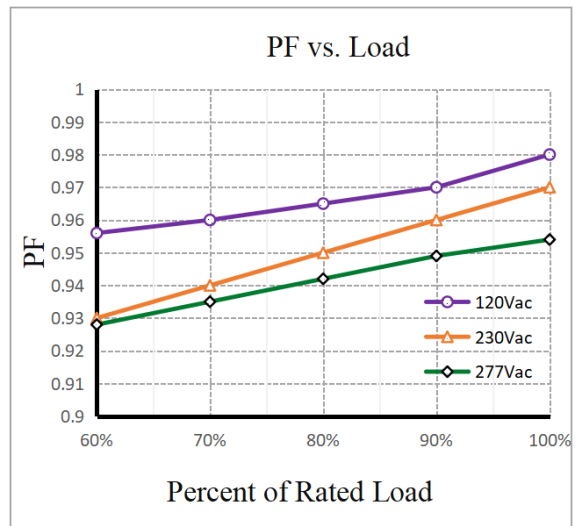
22-34 (V)	Output						
Load operating voltage	22V	24V	26V	28V	30V	32V	34V
supply current I _{o_MAX}	2.1A	2.1A	1.92A	1.79A	1.67A	1.56A	1.47A
input power P _{i_MAX}	46.2W	50W	50W	50W	50W	50W	50W

XC75W700-1050 & XC75W1300-2100

Lifetime vs. Case Temperature

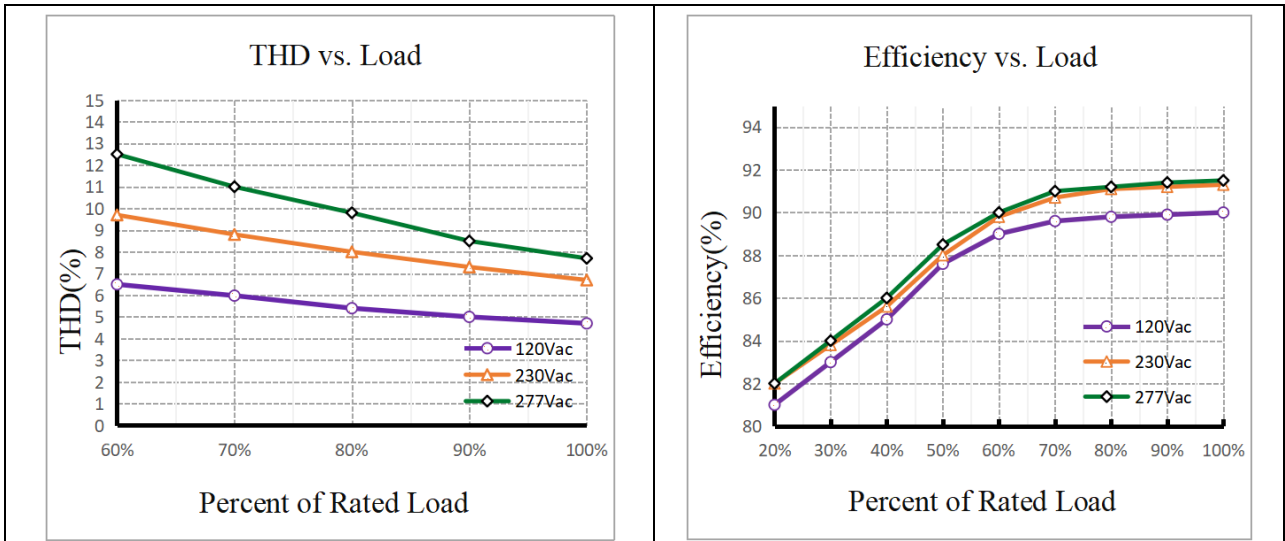


PF vs. Load

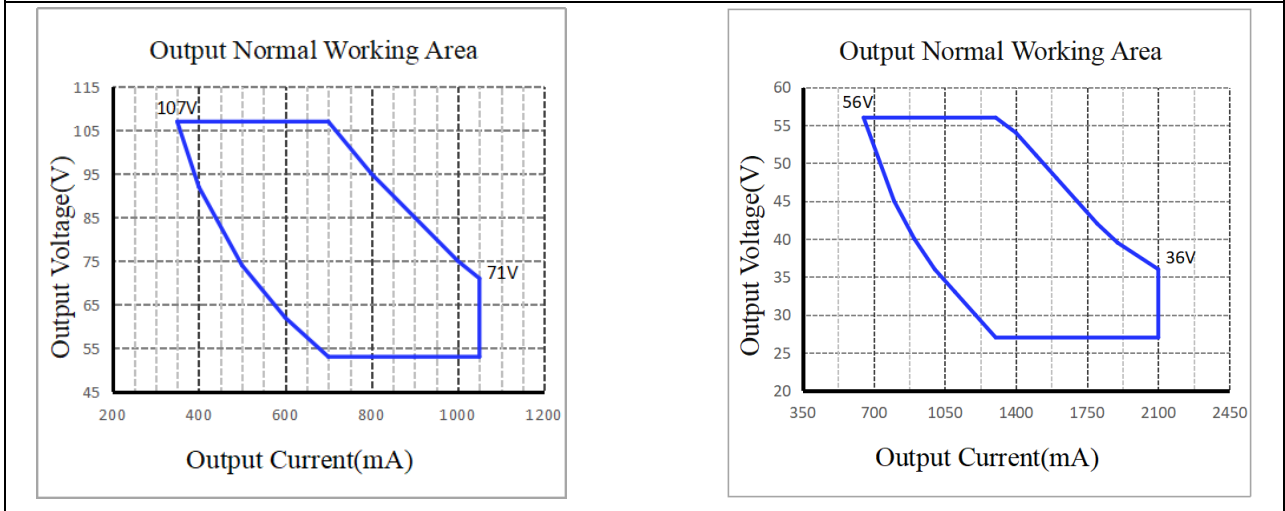


THD vs. Load

Efficiency vs. Load



Output Power Window

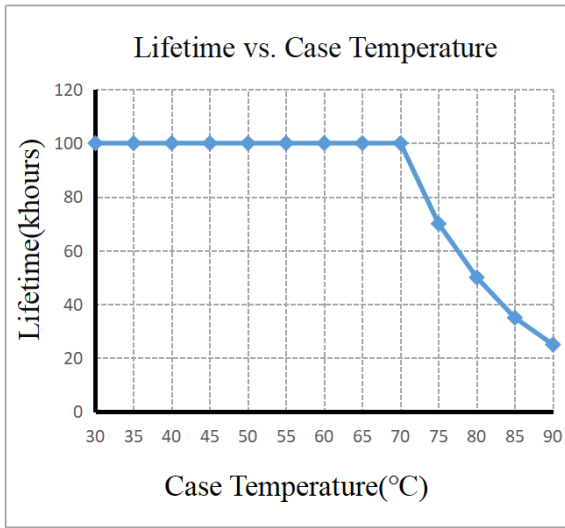


53-107 (V)	输 出								
负载工作电压	71V	75V	79V	83V	88V	94V	100V	107V	
电源电流 I _o _MAX	1050mA	1000mA	950mA	900mA	850mA	800mA	750mA	700mA	
电源输入功率 P _i _MAX	75W	75W	75W	75W	75W	75W	75W	75W	

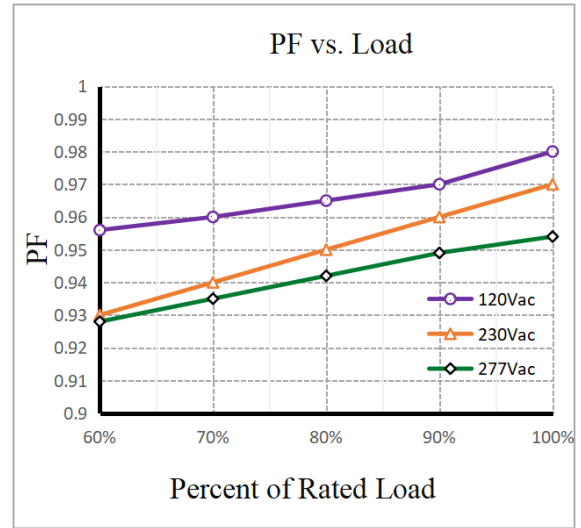
27-26 (V)	输 出									
负载工作电压	27V	30V	36V	40V	44V	47V	50V	53V	56V	
电源电流 I _o _MAX	2.1A	2.1A	2.1A	1.88A	1.7A	1.6A	1.5A	1.42A	1.34A	
电源输入功率 P _i _MAX	56.7W	63W	100W	75W	75W	75W	75W	75W	75W	

XC100W700-1050 & XC100W1750-2780

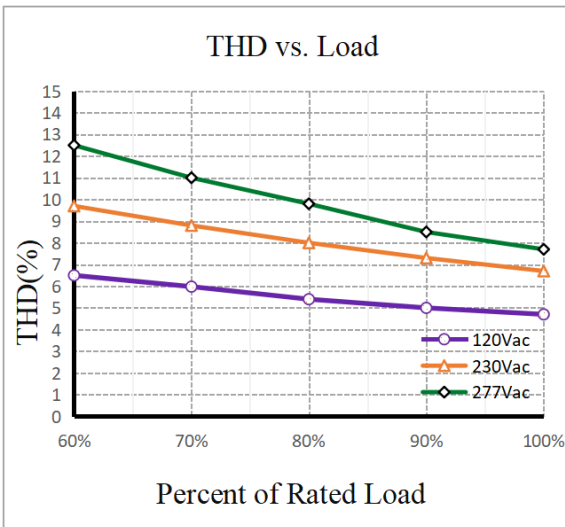
Lifetime vs. Case Temperature



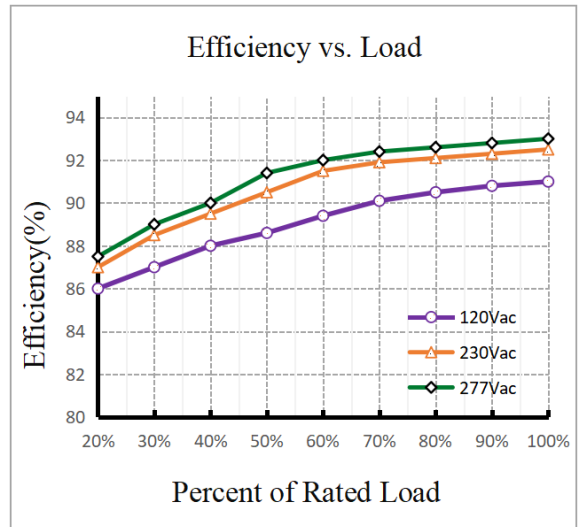
PF vs. Load



THD vs. Load

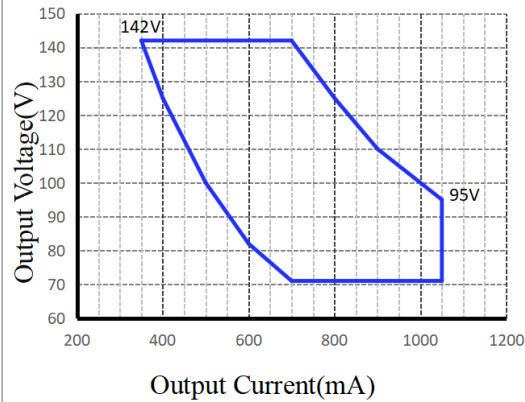


Efficiency vs. Load

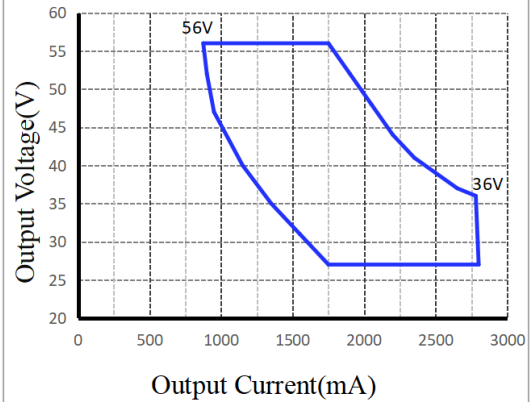


Output Power Window

Output Normal Working Area



Output Normal Working Area

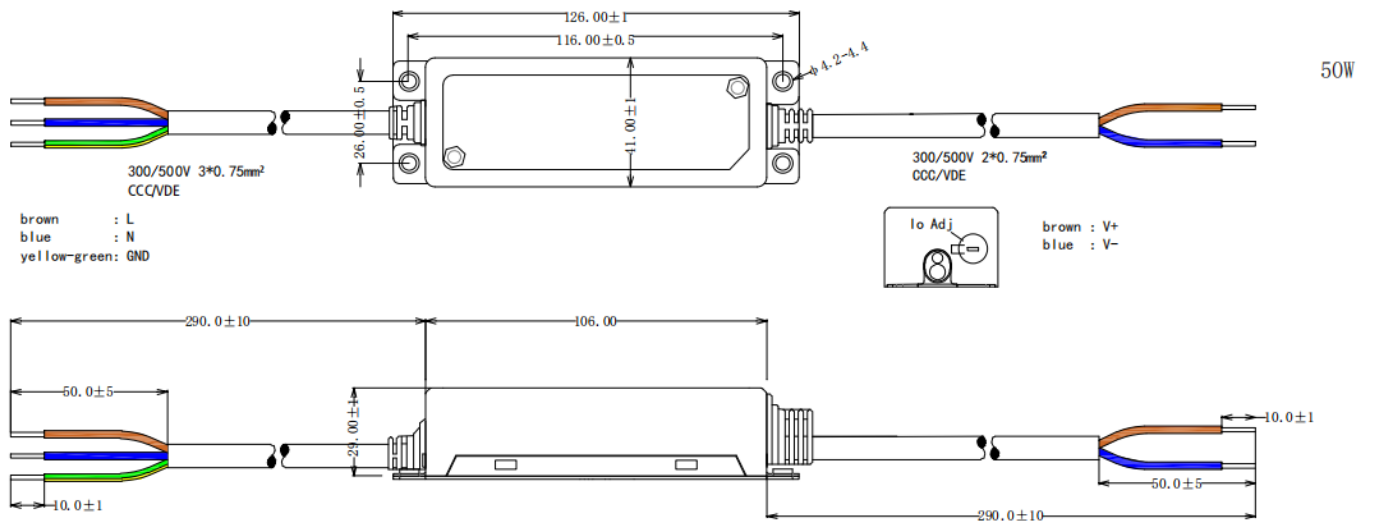


71-142 (V)	输 出								
负载工作电压	71V	95V	100V	105V	111V	118V	125V	133V	142V
电源电流 I _{o_MAX}	1050mA	1050mA	1000mA	950mA	900mA	850mA	800mA	750mA	700mA
电源输入功率 P _{i_MAX}	74.55W	100W	100W	100W	100W	100W	100W	100W	100W

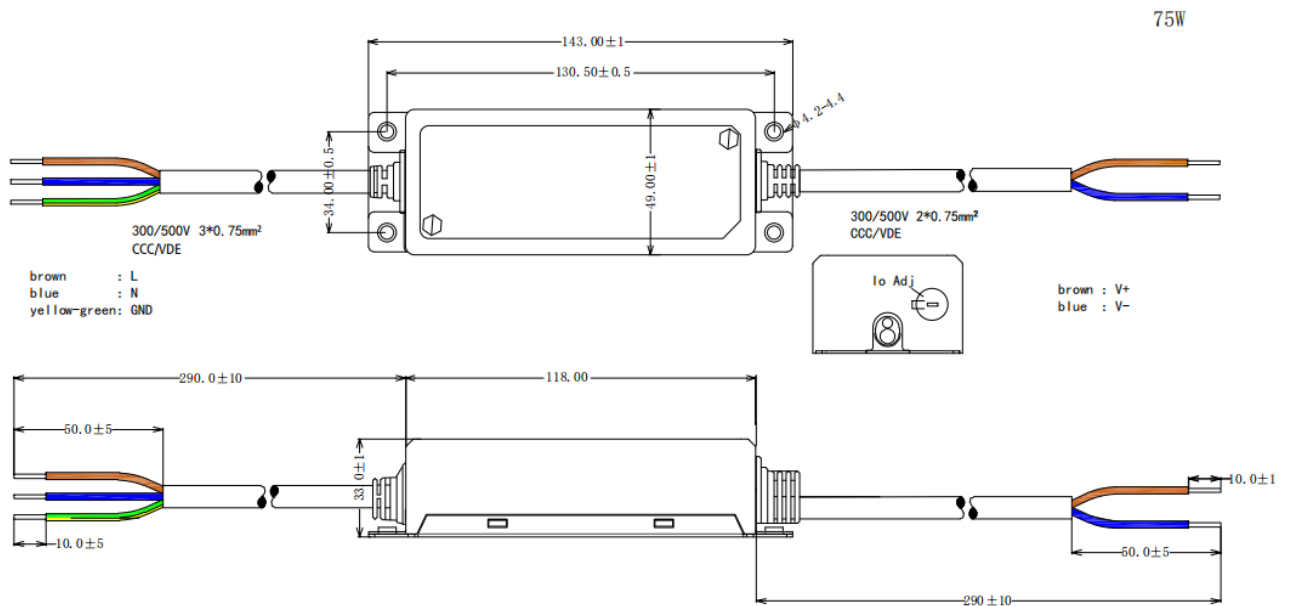
27-56 (V)	输 出								
负载工作电压	27V	30V	36V	40V	44V	47V	50V	53V	56V
电源电流 I _{o_MAX}	2.78A	2.78A	2.78A	2.5A	2.27A	2.13A	2A	1.89A	1.79A
电源输入功率 P _{i_MAX}	75.06W	83.4W	100W	100W	100W	100W	100W	100W	100W

5. Dimension (Unit : mm)

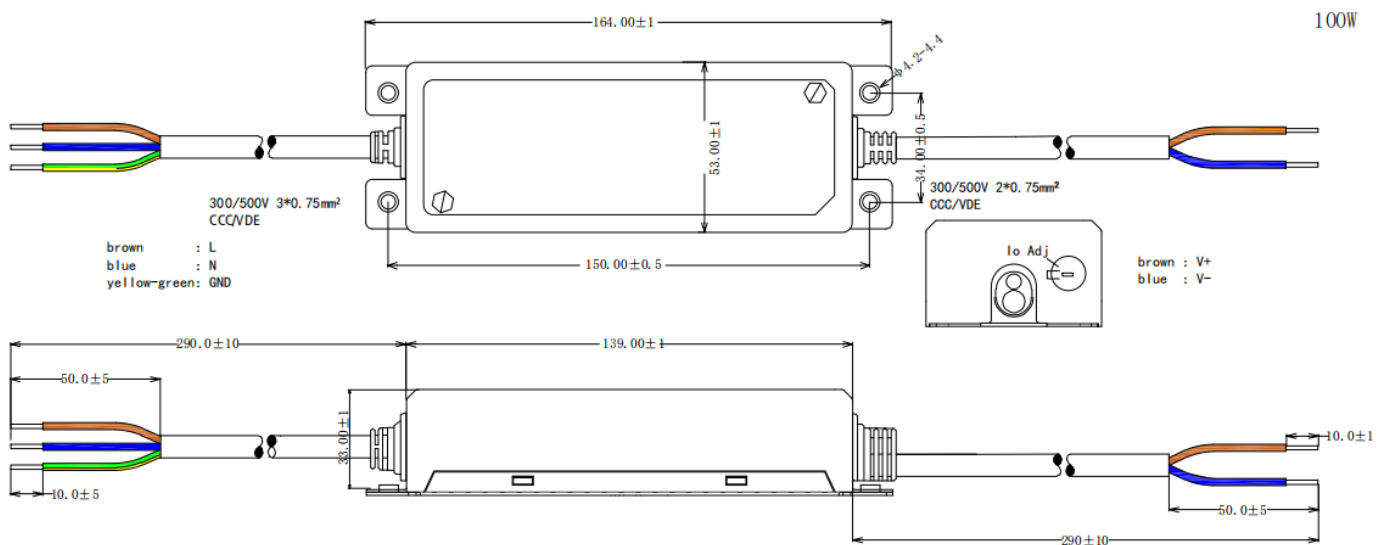
XC50W530-1400 & XC50W1450-2100



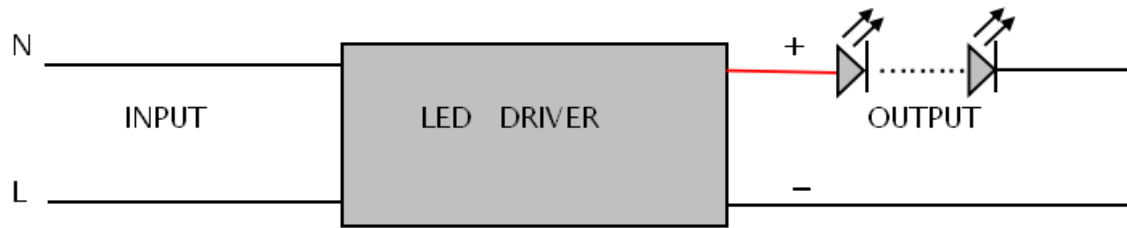
XC75W700-1050 & XC75W1300-2100



XC100W700-1050 & XC100W1750-2780



6. Wiring Diagram



7. Packing information

Packing way	Model	Colour	Carton L*W*H(mm)	Pcs/ Carton (g)	Net weight/ Pcs(kg)	Net weight/ Carton(kg)	Gross weight/ Carton(kg)
Industrial	XC50W530-1400	Silver-white	L345*W310*H158	32	0.36	11.5	12.6
Industrial	XC50W1450-2100	Silver-white	L345*W310*H158	32	0.36	11.5	12.6
Industrial	XC75W700-1050	Silver-white	L375*W245*H220	30	0.44	13.2	14.4
Industrial	XC75W1300-2100	Silver-white	L375*W245*H220	30	0.44	13.2	14.4
Industrial	XC100W700-1050	Silver-white	L420*W280*H210	30	0.58	17.4	18.6
Industrial	XC100W1750-2780	Silver-white	L420*W280*H210	30	0.58	17.4	18.6

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 0.5 m
- Secondary switching is not permitted (Except for constant voltage)
- 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.)
- Hot plug-in is not supported due to residual output voltage of > 0 V up to mains voltage. Danger to life.
- When connecting an LED load, restart the device to activate the LED output.
- This can be done via mains reset or via interface (DALI, DSI, switch DIM).

9. Replace LED module

- Mains off
- Remove LED module
- Wait for 30 seconds
- Connect LED module again
- Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs

10. REVISION HISTORY

DATE	REV	Modification details
2025-10-10	V1.0	Initial release.