INNOEV

IP67

IDU120AA-048	
Type	Fixed single channel
Power	120W
Input Voltage	90-305VAC
Output Current Available From	280mA-2800mA
Output Voltage	28-48VDC
Dimming	0-10V

Electrical Specifications

Model:		IDU120AA-048
6	Max Output Power	135W
	Output Voltage	28-48Vdc
	Open load Voltage	55Vdc
	Output Current Available From	280mA-2800mA
	Output Current Deviation	±5% Max
	Ripple & Noise Pk-Pk	420mA
	Eff.@ 230Vac & 100%load	92.5%
	Eff.@ 277Vac & 100%load	92.5%
	Dimming	0-10V(10%-100%)
Input	AC Current Max	1.6A Max. @100Vac
	Rated Input Voltage Range	100-277Vac
	Input Voltage Range	90-305Vac
	Frequency Range	50/60Hz
	Power Factor(PF)	PF>0.95 (Vin 230Vac)
	Power Factor(PF)	PF> 0.9 (Vin 277Vac)
	Inrush Current Max	65A @230Vac Ta=25℃
	Leakage Current	<0.75mA @ 277Vac
Protection	Short Circuit Protection (SCP)	In the event of a short circuit condition, there will be no damage to the driver， then automatic self-recovery will be activated.
	Surge Protection	Line to Line: 4KV, Line to Earth: 6KV
	Over Temperature Protection	When the Internal PCB temp reaches 105°C (±5°C), to avoid any damage to the driver, its output will be turned off. After the temperature drops below 105°C, automatic self-recovery mode will be activated.
Environment	Ambient Temperature	Ta :-40～+70℃； Tc (max):≦ 90℃
	Operating Humidity	20～90% RH
	Storage Temperature & Humidity	-40～+80℃, 10～95% RH
	Environment Protection Rating	UL Dry, Damp or Wet Location, IP67
	Vibration	10～500Hz 5G 12Min/Cycle， X,Y,Z axis per 72 minute
Safety & EMC	Safety Standards	IEC/EN61347-1(GB19510-1-2009), IEC/EN61347-2-13(GB 19510.14-2009), UL8750, CSA C22.2 NO. 250.13-12
	Withstand Voltage	I/P-O/P:3.75KVac, I/P-FG:1.5KVac,O/P-FG:0.5KVac

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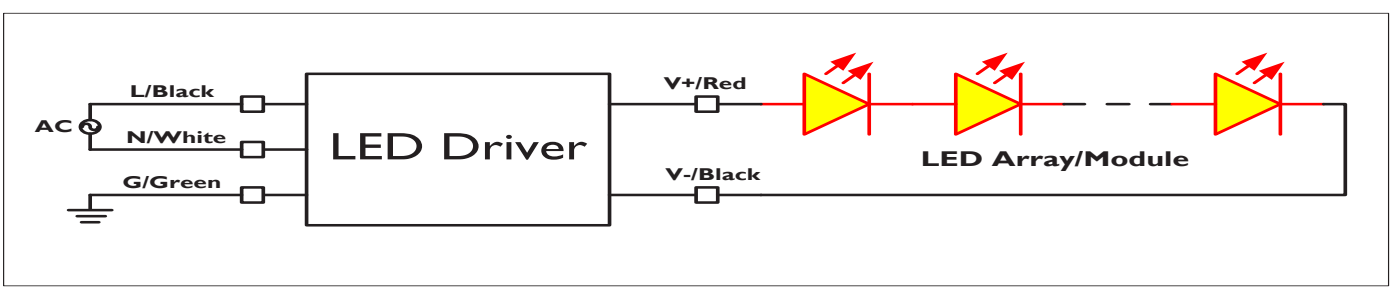
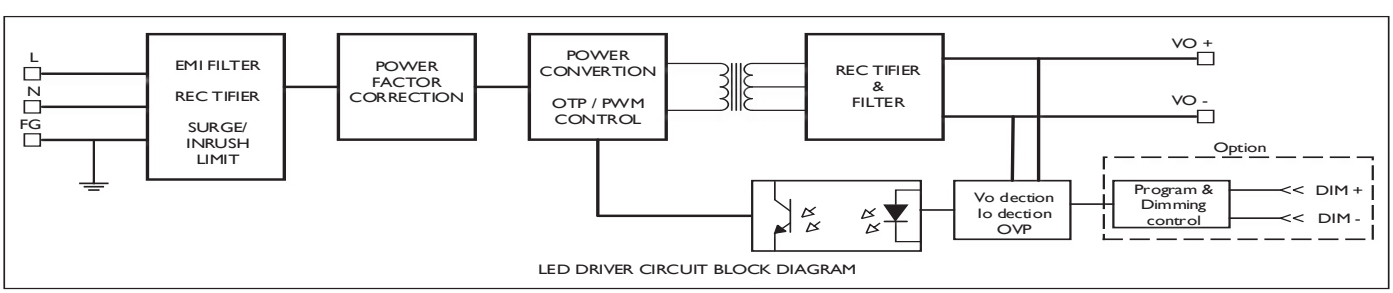
	Insulation Resistance	I/P-O/P, >100M Ohms/500VDC/25°C/70%RH
	EMI	EN55015, FCC PART15-CLASSB
	Harmonic Current	EN61000-3-2 Class C
	EMS	EN61000-4-2,3,4,5,6,8,11;ENV50204,EN61547,EN55024 Industry standard
Others	Dimensions	245*75*38mm (L*W*H), 9.65*2.95*1.50in (L*W*H)
	Weight	750g,1.66lbs

Wiring Diagram





LED DRIVER CIRCUIT BLOCK DIAGRAM

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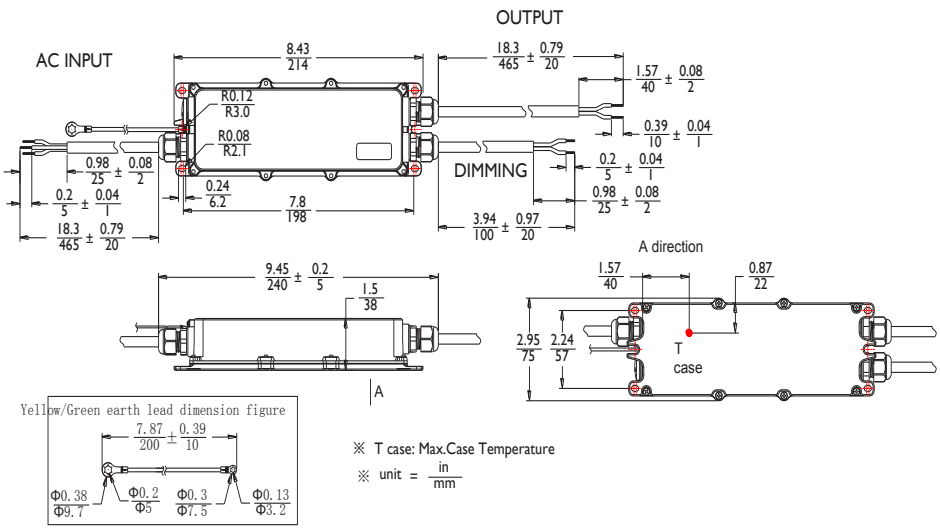
Enclosure



Installation & Application Notes

Section I – Physical Characteristics

1.1 LED Driver shall be installed inside an electrical enclosure.

1.2 Wiring inside electrical enclosure shall comply with 600V/105°C rating or higher.

1.3 Input and output use lead-wires. Lead-wires are UL SJTW Cable 18AWG 105C/600V solid copper.

1.4 Special water proof should be used on the input/output cable, this product is non-potting, water maybe suck in the product.

Section II – Performance

2.1 LED Driver has a minimum operating ambient temperature of -40°C.

2.2 LED Driver is certified by UL for use in a dry, damp or wet location.

2.3 LED Driver tolerates sustained open circuit and short circuit output conditions without damage.

2.4 LED Driver maximum allowable case temperature is 90°C .

2.5 LED Driver reduces output power to LEDs if maximum allowable case temperature is exceeded.

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Section III –Cautions

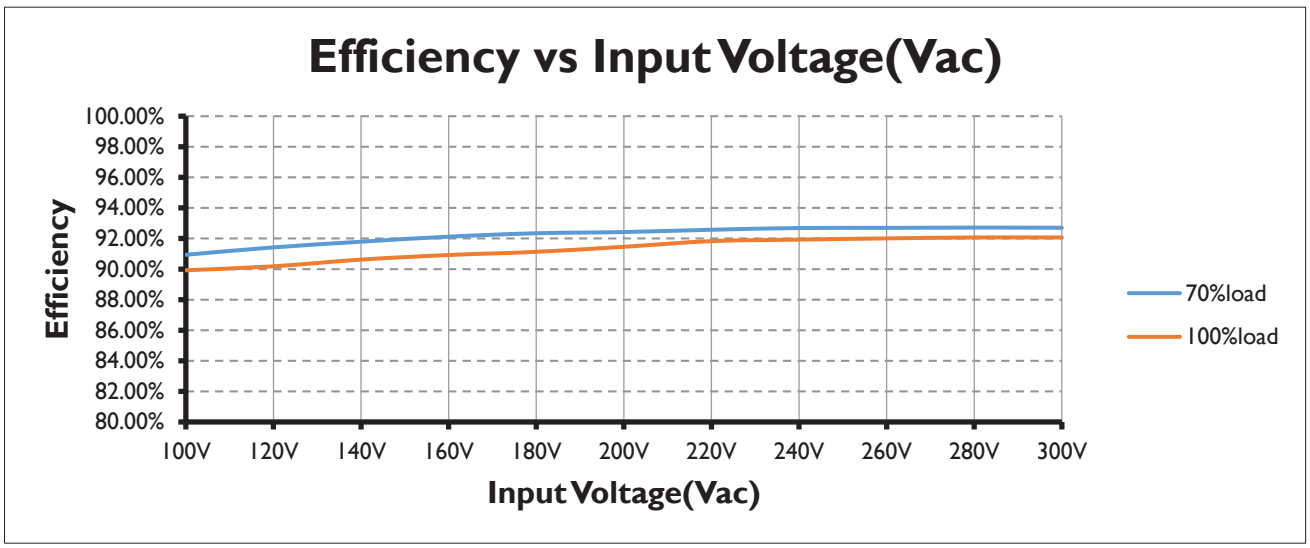
3.1 LED Driver should be kept away from heat source and flammable and explosive substances.

3.2 LED Driver Should be installed in a ventilated and good heat dissipation space.

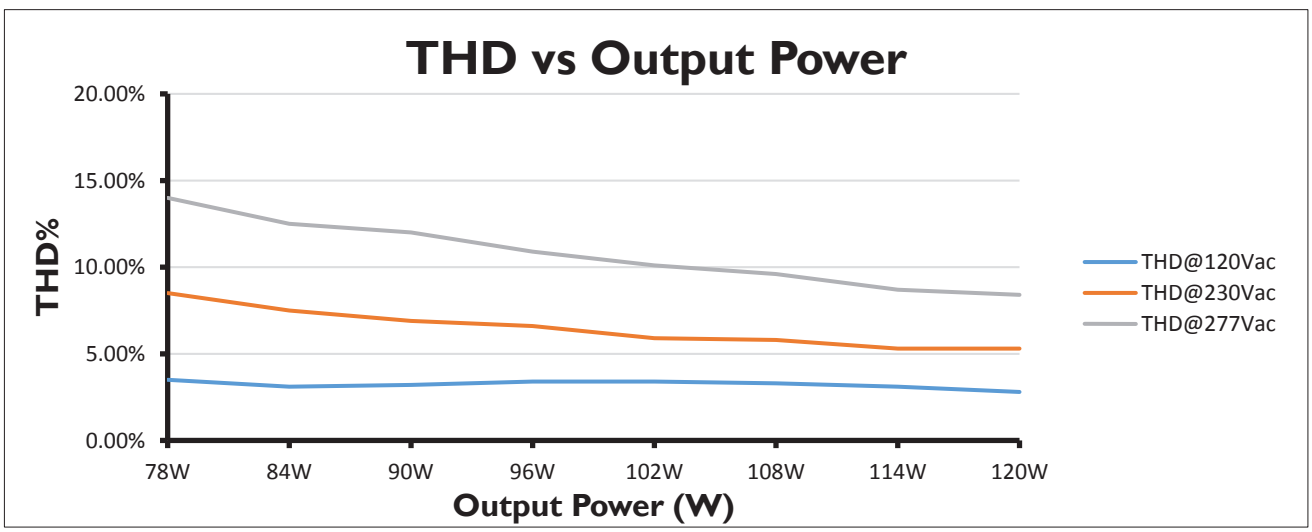
3.3 High Voltage! Do not open the case without experience.

3.4 Make sure I/P, O/P wire joints completely watertight, to prevent electric shock & leakage of electricity.

Efficiency



THD



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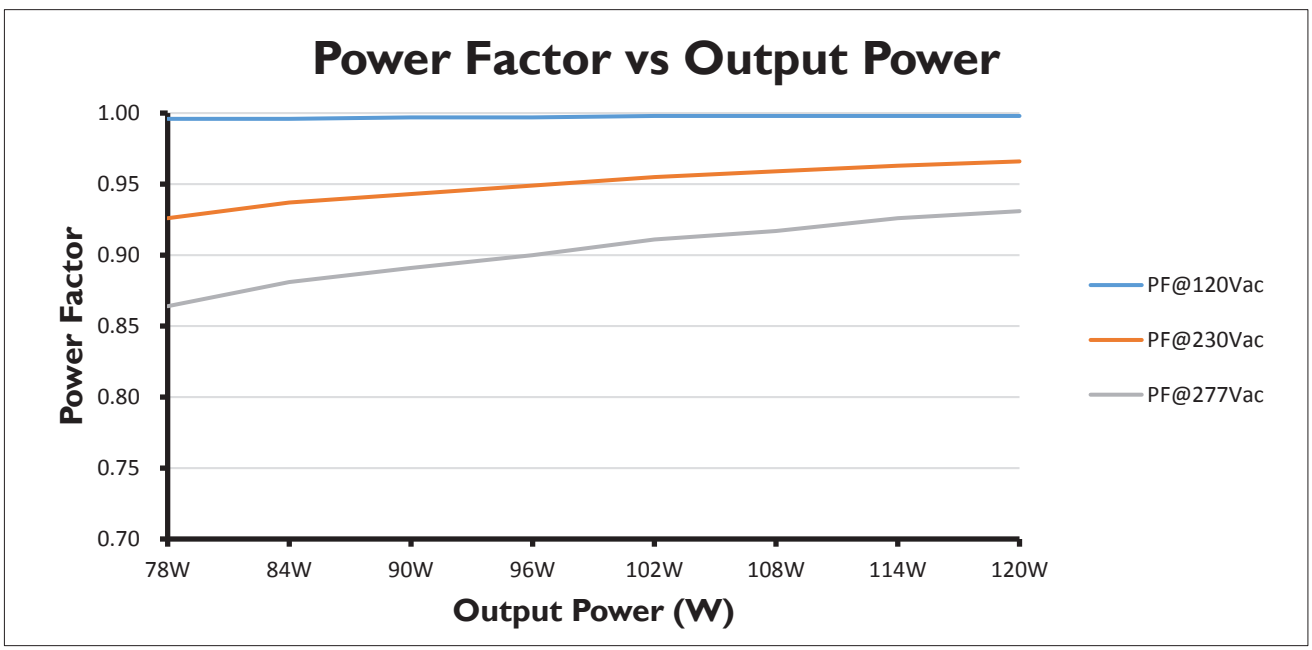
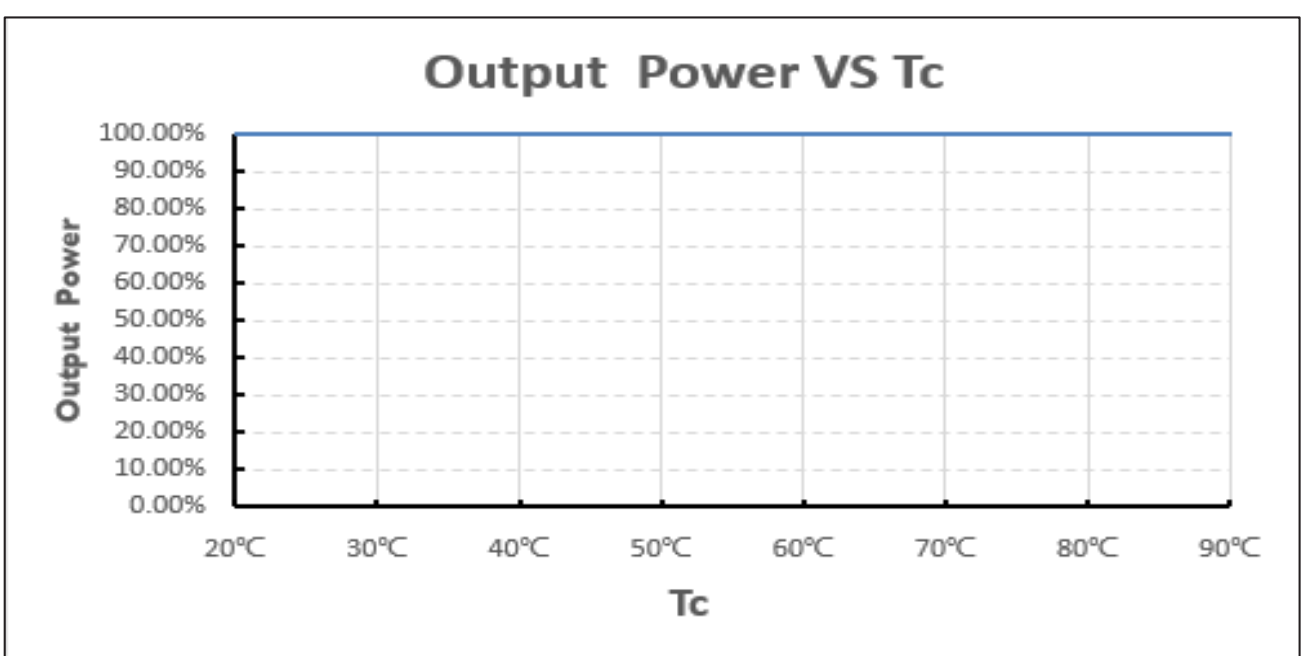
Power Factor



Output Power Derating（120V & 230V AC Input）



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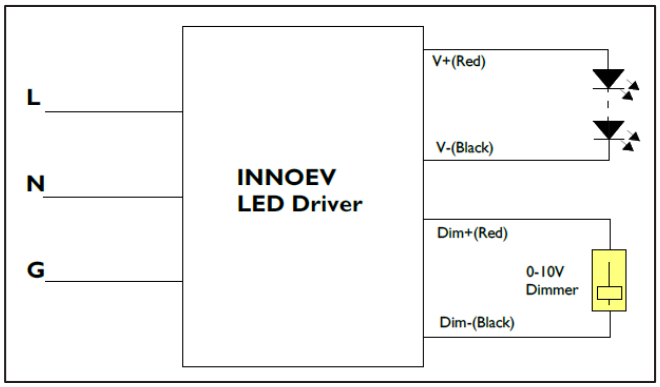
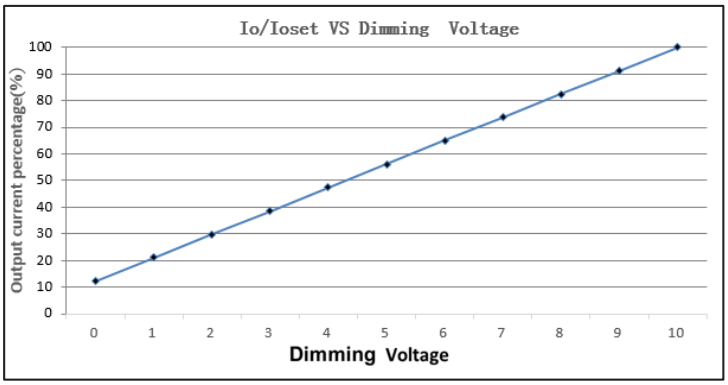
0-10V Dimming Application (Optional Function)

0-10V Dimming

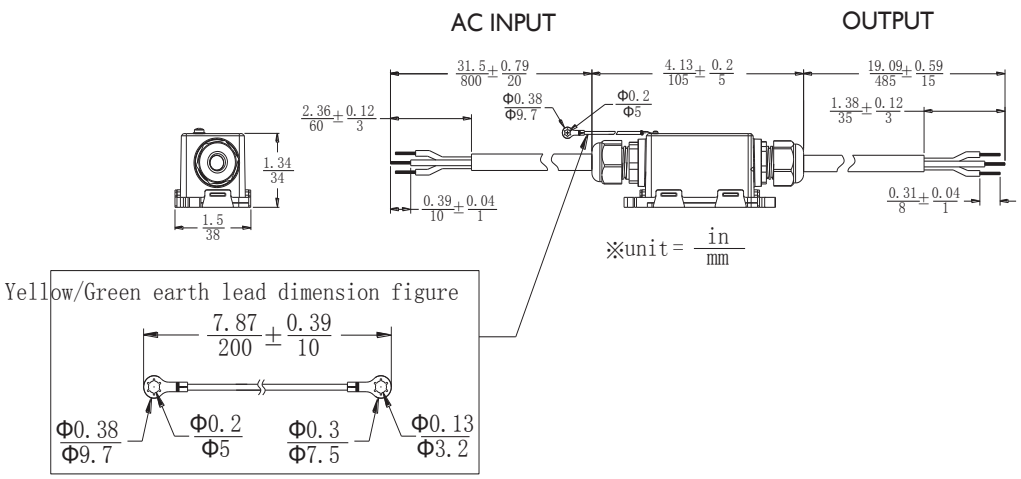




Notes:

1. If the output current is less than 0.1A, the 0.1A is the starting point
2. Do not connect Dim- to the output V- or V+, otherwise the driver will not work property.
3. If 0-10V dimming is not used, Dim+ should be open.

Optional Accessories (External Surge Protector)



Notes:

1. Part Number: SPDS04-240PC; 2. Suitable for INNOEV's LED Driver only; 3. 277Vac Max, Surge protection rating : Line to line 10KV, line to Earth 10KV;4. Limited to strengthen LED Driver Surge protection 5. Waterproof design, Suitable for outdoor and wet location.

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Revision History

DATE	REV	Modification	Reasons for change	Notes
2016/6/2	P1	Release		

Prepared By	Caihong Wu	Checked By	HB.Jiang	Approved By		File Number
Date	2016/6/2	Date	2016/6/2	Date		

Application and operation performance specification information subject to change without notification.