

LED Power Supply

ELL-CCD-UNV-A-055-1300-AMB-A-A -Technical Specifications

1.General Information



GENERAL INFORMATION

Product Description	ELL-CCD-UNV-A-055-1300-AMB-A-A
Rated input voltage (V)	120-277
Max. Input Wattage(W)	64
Control Mode	0 to 10V Dimming
Out type	C.C
Isolated	Yes
Installation	Built-in
Dimming Feature	
Dimming current range	10%-100%(0-10V DIM)
Dimmer List	SF10,DF10,DVTV,NTF TV,IP710
Protection	
Over Voltage Protection	55V
Over Load Protection	Auto Restore
Over Load Protection	Auto Restore
Over Temperature Protection	Auto Restore
Environment/ Life span	
Operating Temperature	-25°C~50°C
Tc	75°C
Storage Temperature	-40°Cto85°C
Humidity	5 to 90%
Service Life	50000H@ Tc 75°C
UL Rating	Dry&Damp
Safety & EMC	
Safety standards	UL8750Class2 Recognized, UL 1310
FCC	FCC Part 15 Class A

2.Electrical Specifications

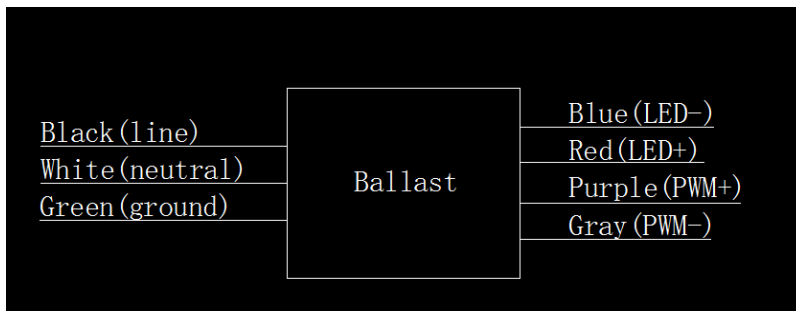
ELECTRICAL SPECIFICATIONS

Input	
Rated input voltage (V)	120-277
Range of input voltage(V)	95-305
Frequency Range(Hz)	47-63
Max. Input Wattage(W)	64
Input Current(A)@Full Load	510mA +/-10% at 120V
Input Current(A)@Full Load	220mA +/-10% at 277V
THD@Full Load	<20%
Power Factor@Full Load	>0.9
Efficiency@Full Load	>85%
Inrush Current(Apk)	<10A/250uS
Start-up time	<0.5S
Start-up time with dimmer	<1S
Output	
Max Unload Voltage(V)	55
Output Current(mA)	1300
Output Voltage(VDC)	30-42
Output Ripple Current	<30%
Load Regulation	5%
Line Regulation	5%
Hi-pot	
Input-Output(V.AC)	2KV 60S
Input-FG(V.AC)	2KV 60S
Output-FG(V.AC)	2KV 60S
Leakage Current	<5mA
Isolation resistance	
Input-Output(V.AC)	DC 500V, >2M Ω
Input-FG(V.AC)	DC 500V, >2M Ω
Output-FG(V.AC)	DC 500V, >2M Ω
Noise	
30cm	<22.5dB



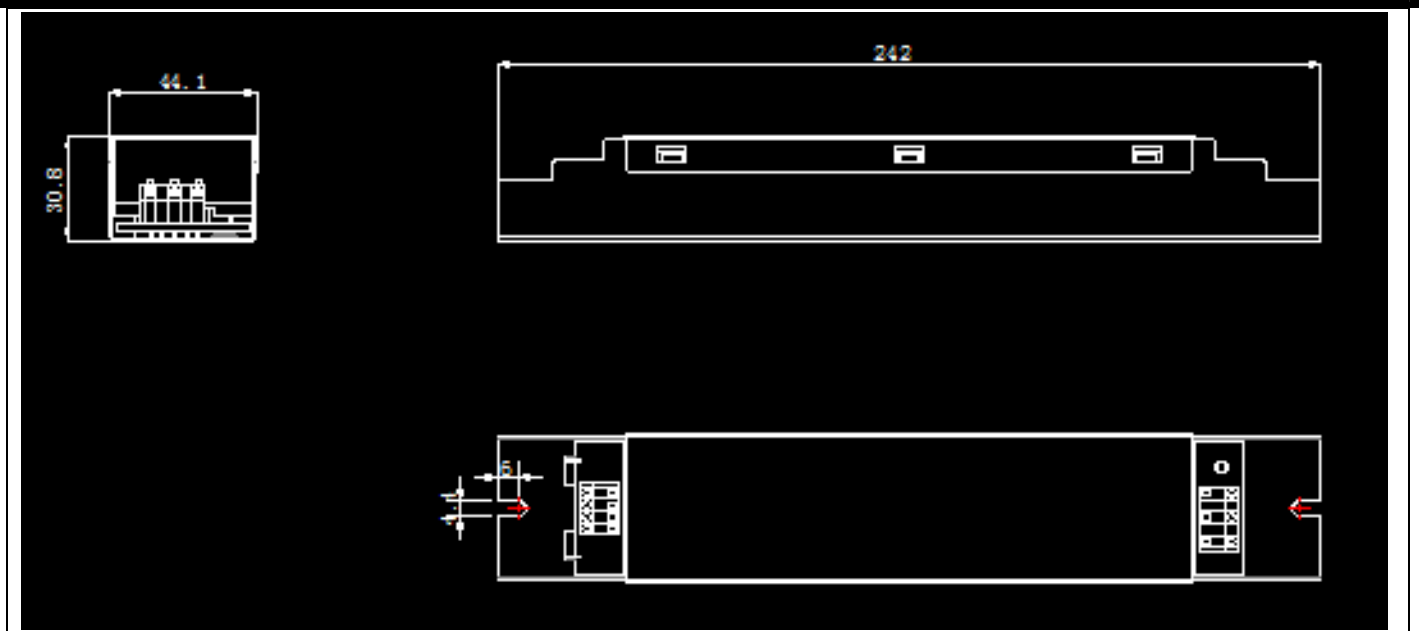
3. Mechanical Specifications

WIRING DIAGRAM FOR 0-10V DIMMER MODE



Note: Maximum suggested remote mounting distance is 16 feet. For additional information on further distances and EMI compliance reference OPTOTRONIC Technical Guide LED258

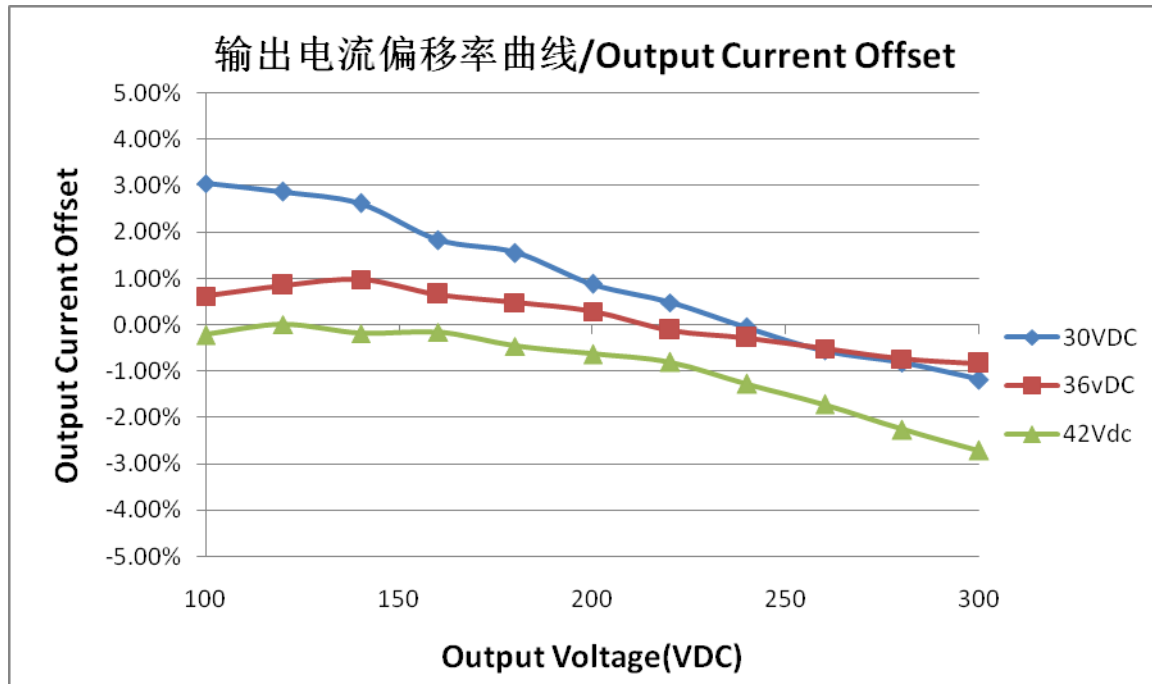
DIMENSION CONSTRAINTS



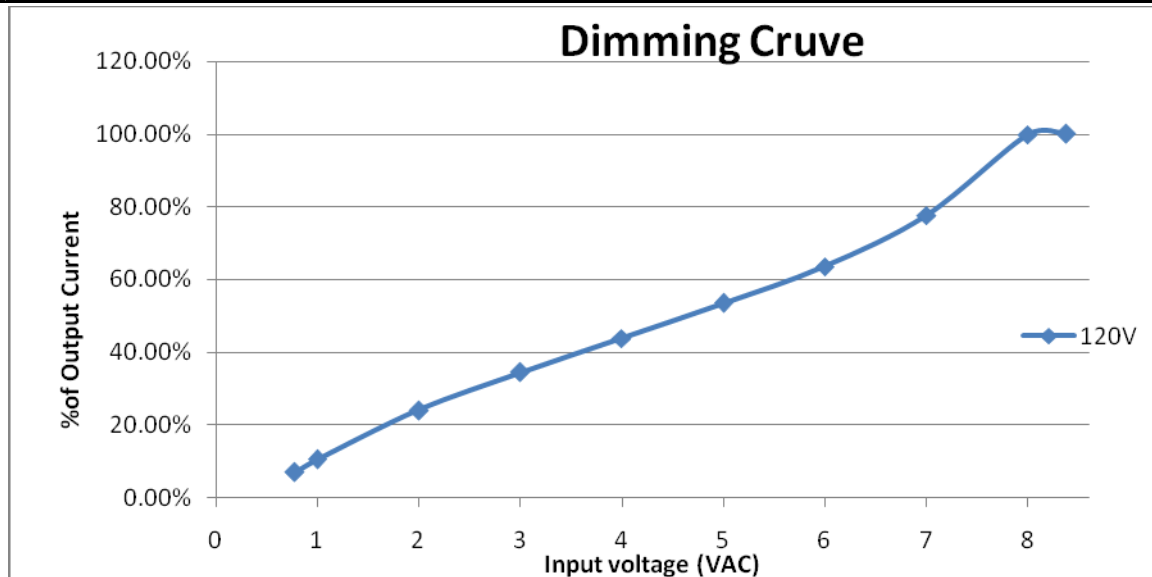
Length	242mm
Width	44.1mm
Height	30.8mm

Push the button when install/release the wire to/from terminal. Solid or stranded copper wire – 16 ~ 18 AWG. Strip length of wire insulation – 9 mm. See wiring diagram when installation.

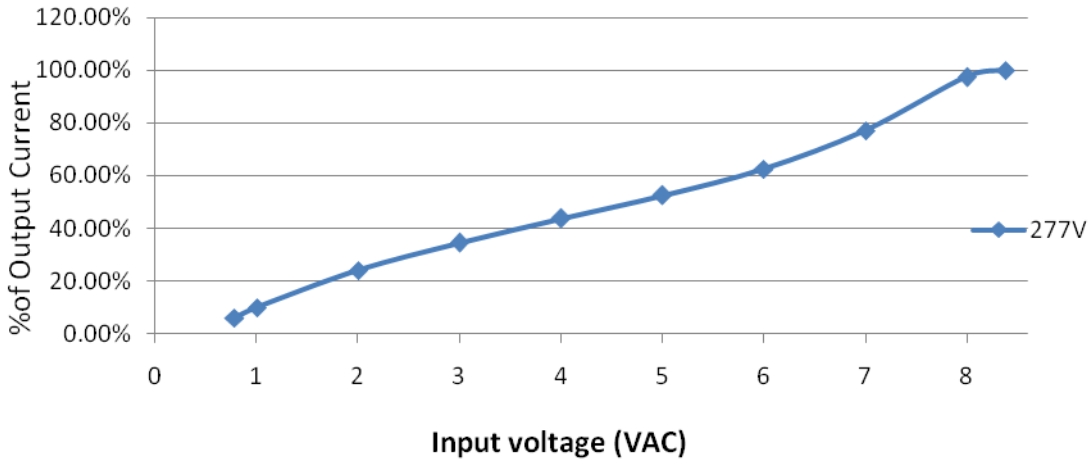
Output Current Offset



DIMMING CURVE

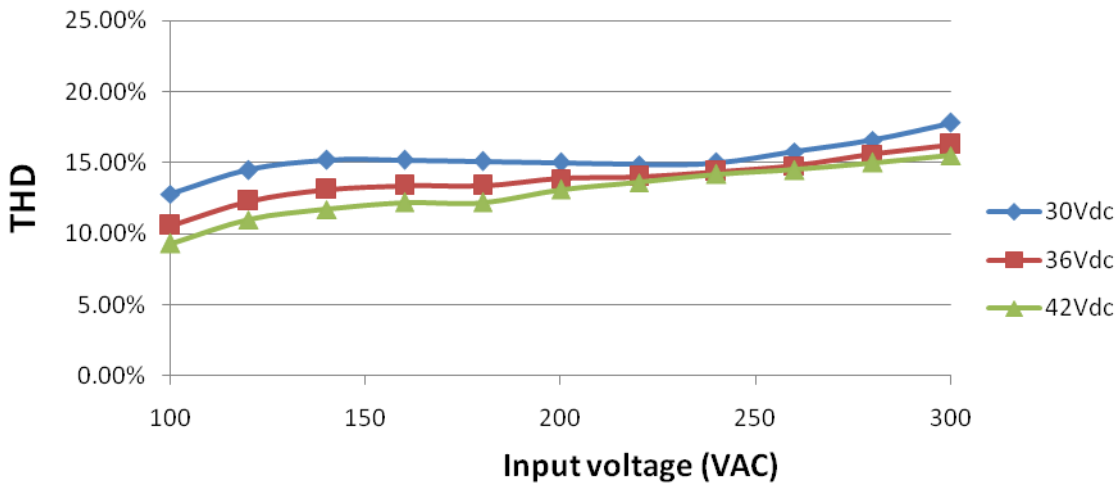


Dimming Cruve

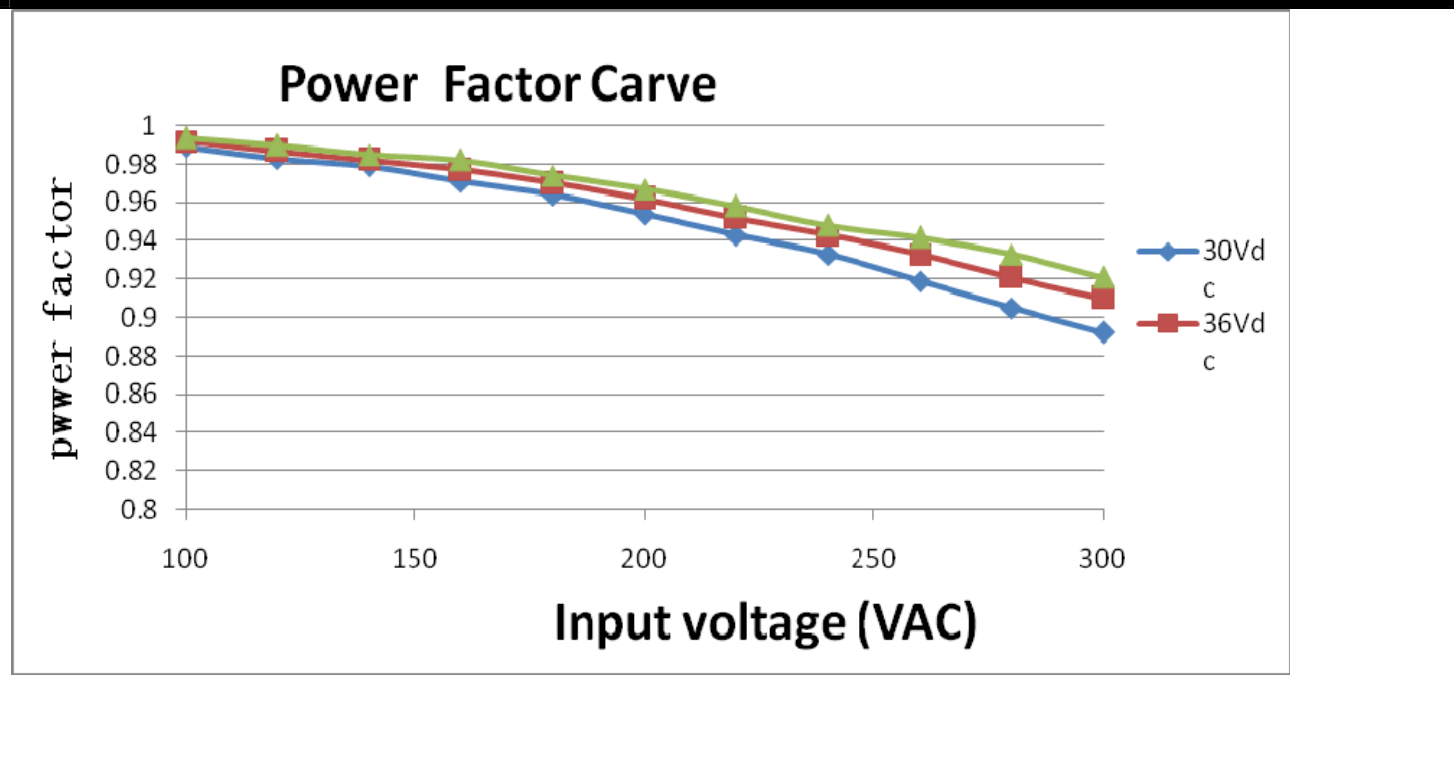


THD VS INPUT VOLTAGE

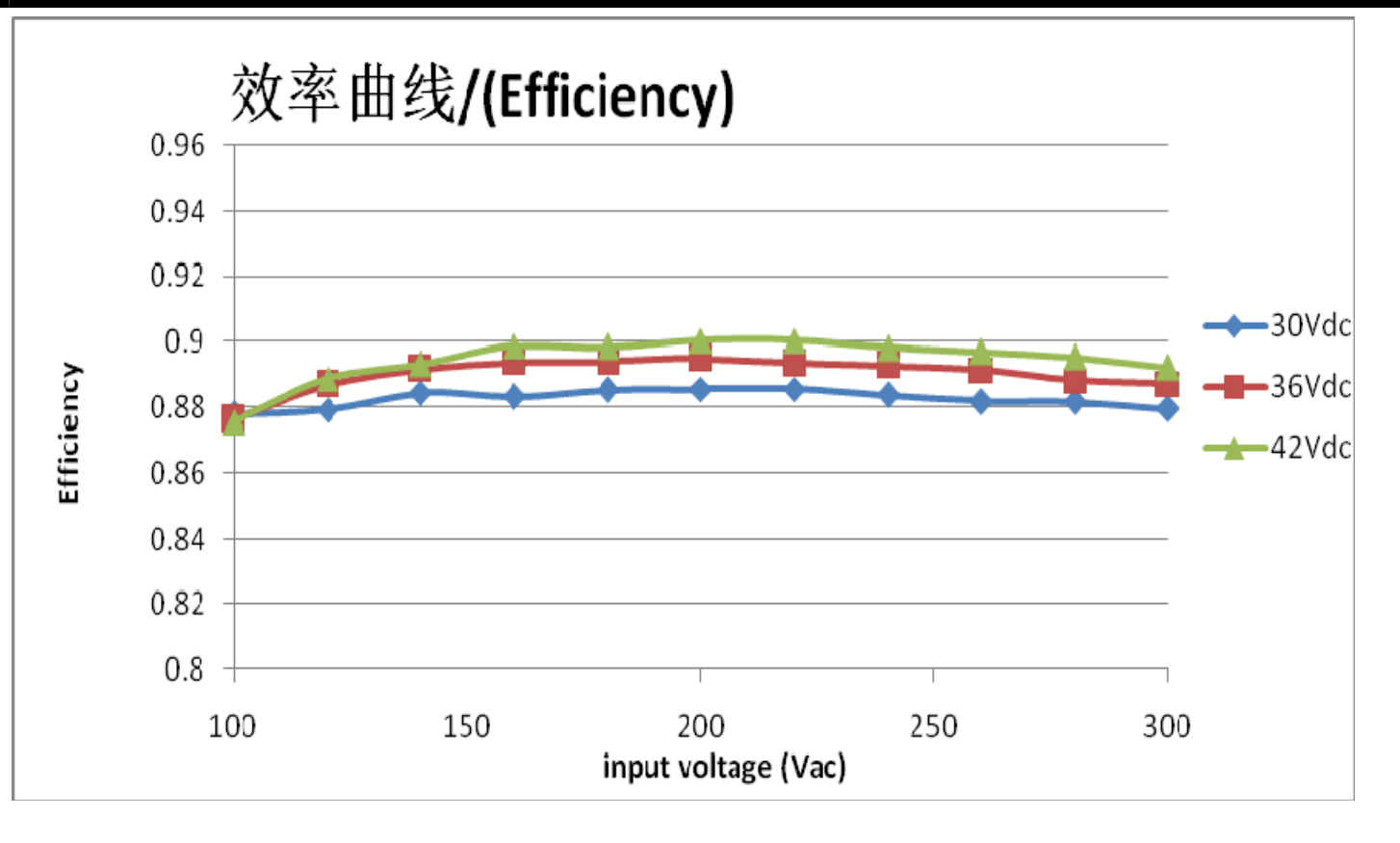
THD



POWER FACTOR VS INPUT VOLTAGE



EFFICIENCY VS INPUT VOLTAGE



Applications

The power LED driver (type) is exclusively designed for the Light Emitting Diode (LED) lamps used in indoors. It is a switch mode power supply with 1.3A constant output Current.

An electronic protection circuit switches off the power supply in case of short circuit

After the removing of the faults, the power LED driver is resetting automatically for operation again.

Important information for the installation

- The power LED driver can only be used with the LED lamps.
- The power LED driver is suitable for use in indoors . Protect the power LED driver against excessive heat (permissible operating temperature range -25 to $+50^{\circ}\text{C}$).
- The loads indicated on the power supply must be no exceed the following values:
- Connect the LED lamps to the LED power supply with correct polarity according to the schematic drawing.
- The maximum length of the output cable to the LED lamps should not exceed 2m in order to meet the EMC standard.
- The power LED driver must be installed in power-down state, after the installation can only touch the power LED driver's metal body.
- If the power LED driver is used for purposes other than originally intended or it is connected in the wrong way, no liability can be taken over for possible damages.

