



LVLE Power Supply LL-DR-38V0A30-38WYT_x series

Features:

- AC input (100-277VAC)
- Built-in PFC function
- Protections: Short circuit / Over voltage
- LVLE power unit
- Three in one dimming function (0-10Vdc or PWM or resistance)
- Suitable dry / damp locations
- 100% full load burn-in test
- High Efficiency :86%-88%(Typ.)
- 5 years warranty

SPECIFICATION

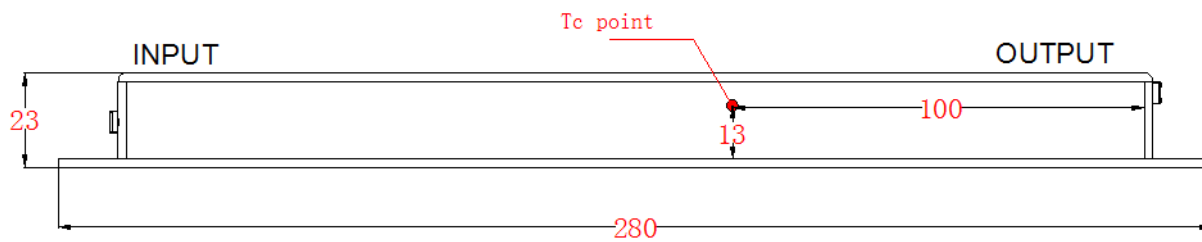
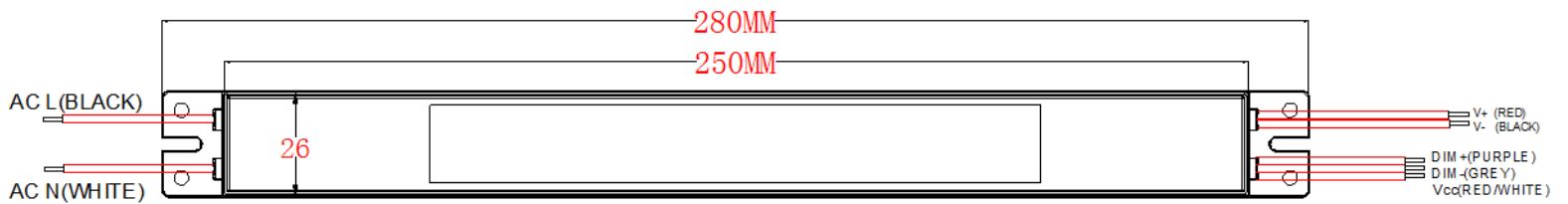
MODEL		LL-DR-38V0A30-38WYT _x
OUTPUT	DC VOLTAGE(Max)	48V
	CONSTANT CURRENT REGION	23-42V
	RATED CURRENT	0.3A
	RIPPLE&NOISE(max.)	2Vp-p
	CURRENT TOLERANCE	±10%
	LINE REGULATION	±2%
	LOAD REGULATION	±5%
	SETUP,RISETIME	<2000ms/ 115VAC at full load , <1000ms / 277V AC at full load
HOLD UP TIME(TYP)	16ms at full load 277VAC / 115VAC	
INPUT	VOLTAGE RANGE	100~277VAC
	RATED POWER	12W
	FREQUENCY RANGE	47~63Hz
	POWER FACTOR(Typ)	PF>0.99/115VAC, PF>0.98/230VAC, PF>0.95/277VAC at full load
	THD	<20%
	EFFICIENCY(Typ.)	90%
	ACCURRENT AT 12W (TYP)	0.2A / 100VAC 0.043A / 277VAC
	INRUSH CURRENT(TYP)	COLD START 75A at 277VAC
PROTECTION	LEAKAGE CURRENT	<0.75mA/277VAC
	OVER CIRCUIT	95-110 % Protection type : Constant current limiting, recovers automatically after fault condition is removed
	Integral short circuit	Hiccup mode, recovers automatically after fault condition is removed
	Open Voltage protection	50-60V Protection type : Shut down and latch off o/p voltage, re-power on to recover
	Overload protection	105-120 % Hiccup mode, recovers automatically after fault condition is removed
ENVIRONMENT	WORKING TEMP.	-40 ~ +60°C
	WORKING HUMIDITY	20~95%RH non-condensing
	STORAGE TEMP.,HUMIDITY	-40 ~ +80°C , 10 ~ 95%RH
	TEMP.COEFFICIENT	±0.03%/°C(0~50°C)
	VIBRATION	10~500Hz, 2G 12 min./1cycle, period for 72 min.each along X,Y,Z axes
	SAFETY STANDARDS	design refer to UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13, UL60950-1, TUV EN60950-1



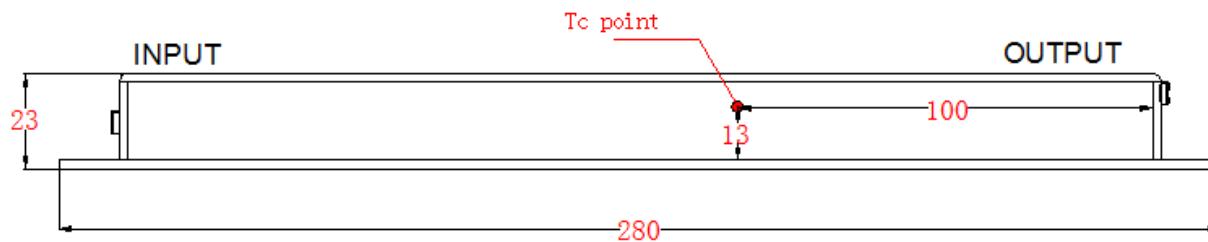
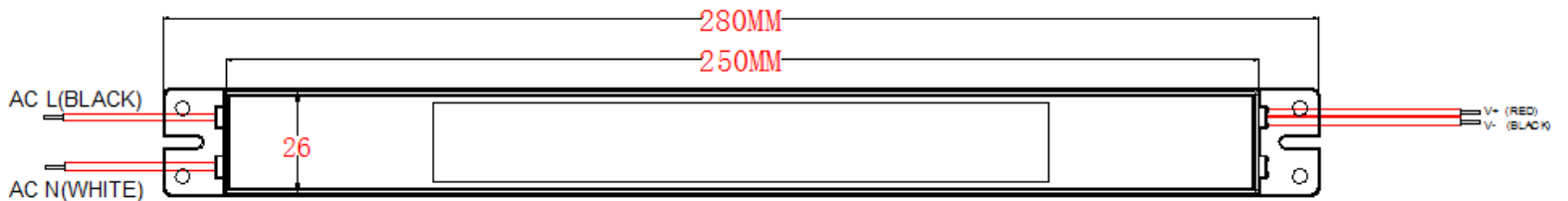
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SAFETY & EMC	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG: 2KVAC O/P-FG:0.5KVAC
	ISOLATION RESISTANCE	I/P-O/P , I/P-FG , O/P-FG : 100M Ohms /500VDC /25°C//70%RH
	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C ;EN61000-3-3
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV),criteria A
OTHERS	MTBF	300Khrs min. MIL-HDBK-217F(25°C)
	DIMENSION	280*26*23mm(L*W*H)
NOTE	Suffix "XAXX" after letter V is 4 digit number which represents the output current in ampere for each output channel, for example, "5A00" means 5.0 A, "0A67" means 0.67 A. Suffix "Y" after letter 38W is "D" or "N",suffix "D" which represents the dimmer type,suffix "N" which represents no dimmer type.	

Mechanical Specification



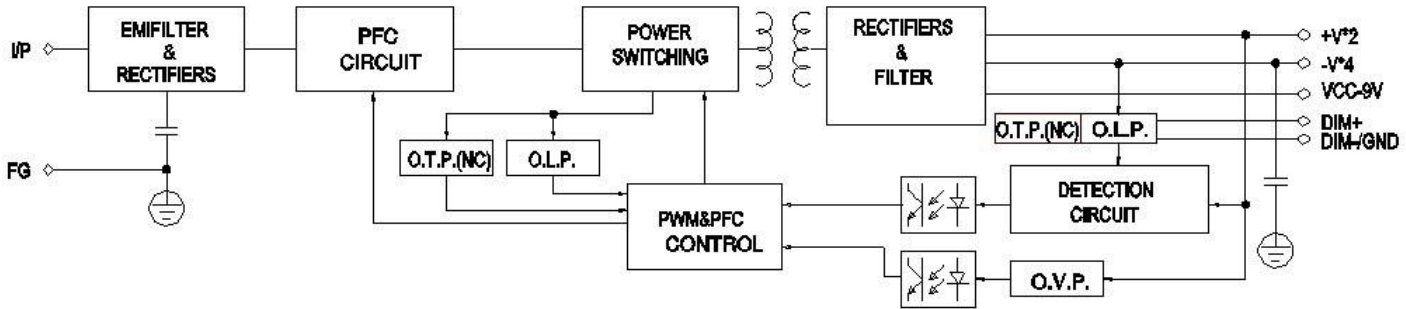
Remark: Support 0-10Vdc or PWM or resistance dimming function.



Remark: without dimming switch.

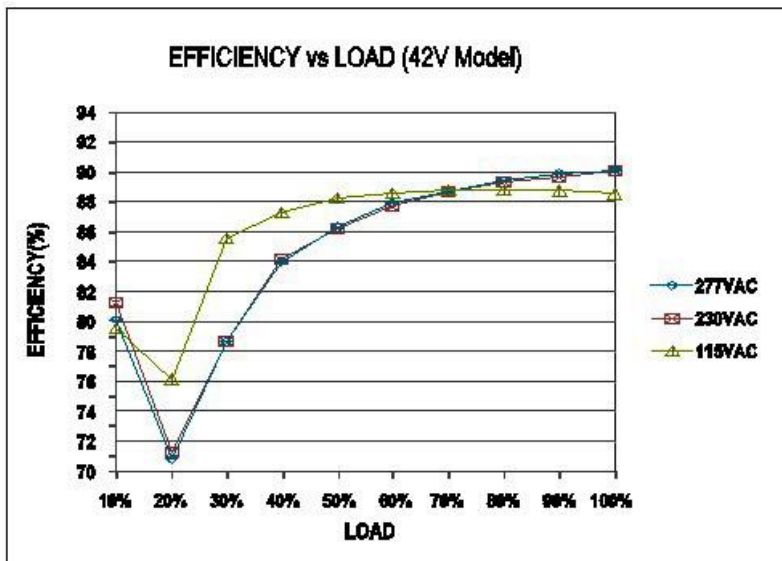
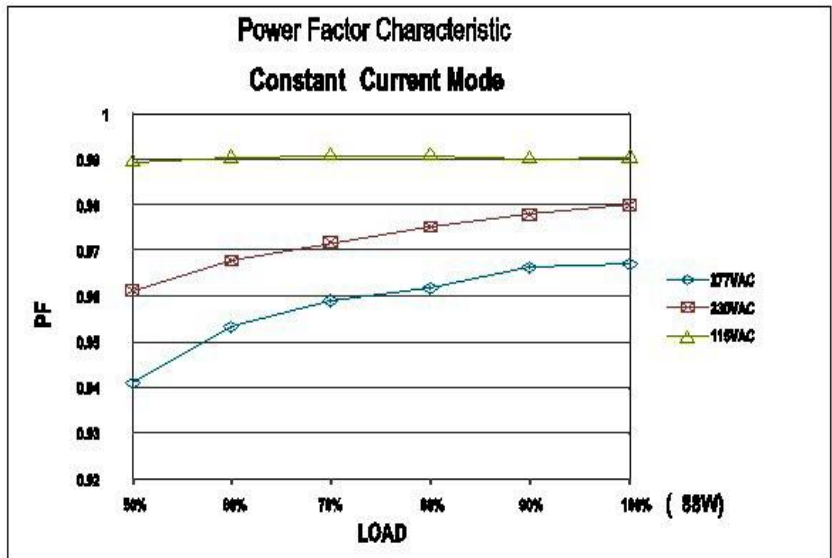
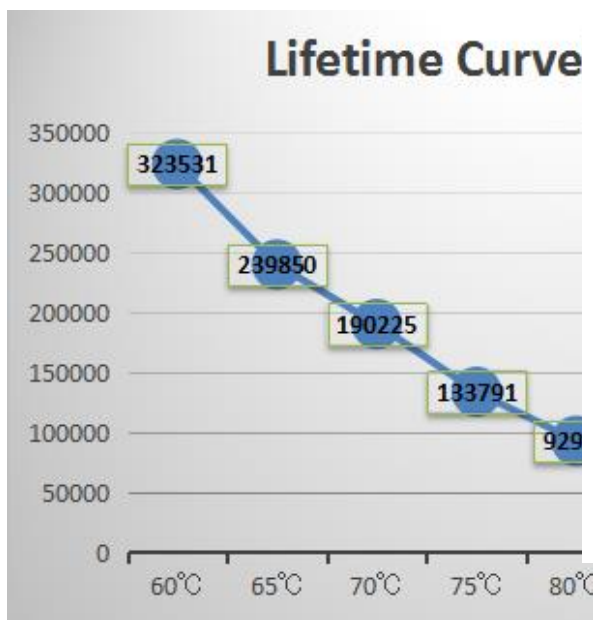
Block Diagram

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The life time curve:

TC (°C)	60°C	65°C	70°C	75°C	80°C	85°C	90°C	95°C	100°C	105°C
TA (°C)	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C	65°C	70°C
The power of life (Hour)	323531	239850	190225	133791	92923	75409	59646	57311	53029	50110

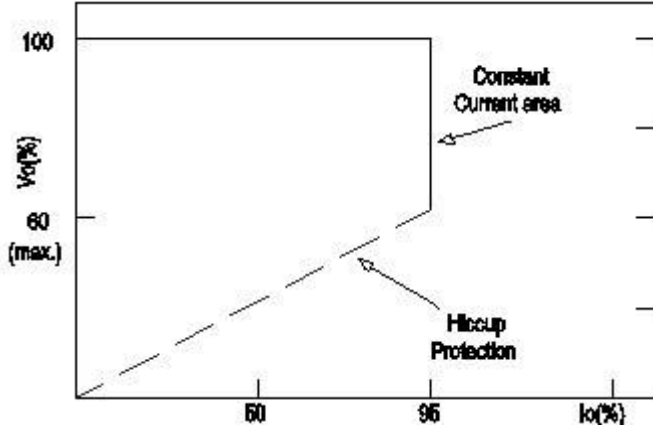


DRIVING METHODS OF LED MODULE

This LED power supply is suggested to work in constant current mode area (CC) to drive the LEDs

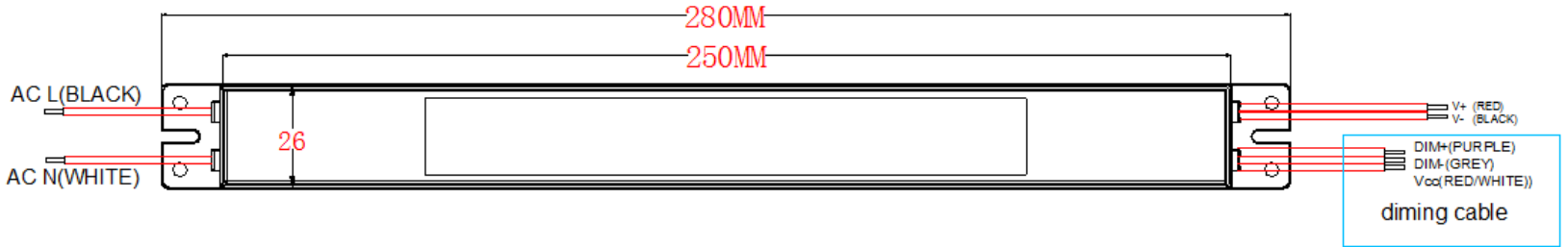


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Typical LED power supply I-V curve

DIMMING OPERATION



Built-in 3 in 1 dimming function, output constant current level can be adjusted through dimming cable by connecting a resistance or 0~10Vdc or 10V PWM signal between DIM+ and GND. Please DO NOT connect "DIM-" to "V-1".

Reference resistance value for output current adjustment (Typical)

Resistance value	Single driver	0 Ω	10K Ω	20K Ω	30K Ω	40K Ω	50K Ω	60K Ω	70K Ω	80K Ω	90K Ω	100K Ω	OPEN
	Multiple drivers (N=driver quantity for synchronized dimming operation)	0Ω /N	10KΩ /N	20KΩ /N	30KΩ /N	40KΩ /N	50KΩ /N	60KΩ /N	70KΩ /N	80KΩ /N	90KΩ /N	100KΩ /N	----
Percentage of rated current		0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%-110%

0~10V dimming function for output current adjustment (Typical)

Dimming value	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%-110%

10V PWM signal for output current adjustment (Typical): Frequency range: 100HZ~3KHz

Duty value	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Percentage of rated current	0%	10%	20%	30%	40%	50%	50%	70%	80%	90%	100%	95%-110%

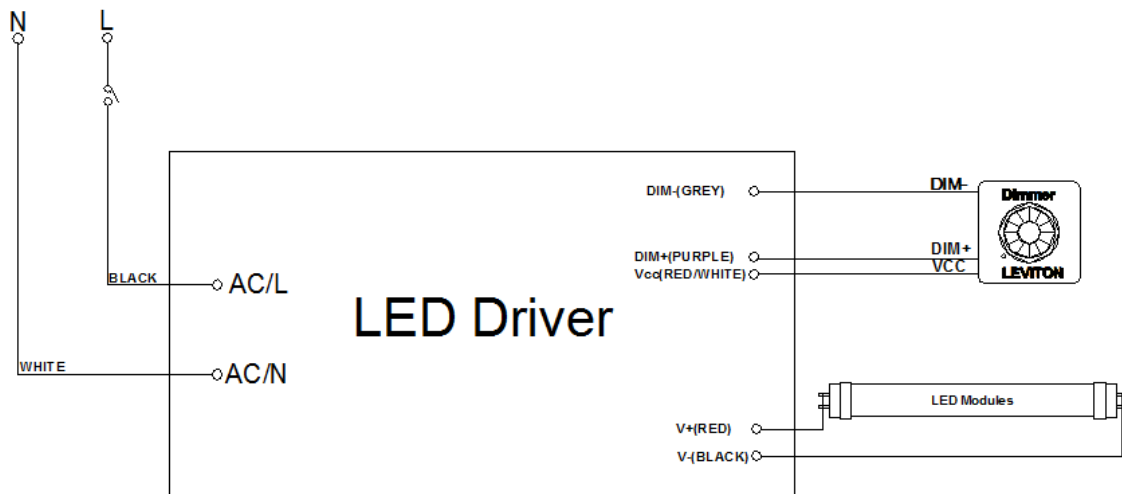
Using the built-in dimming function can't turn the lighting fixture to tally dark. Please refer to the connection method below to achieve 0% brightness of the lighting fixture connecting to the LED power supply unit.



LinmoreLEDTM
ULTRA PERFORMANCE LIGHTING

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Dimming connection diagram for turning the lighting fixture ON/OFF:



Using a switch and relay can turn ON/OFF the lighting fixture.

1. Out put constant current level can be adjusted through dimming cable by connecting a resistance or 0~10Vdc or 10V PWM signal between DIM+ and DIM-.
2. The LED lighting fixture can be turned ON/OFF by the switch or dimming.