

■ Features:

Universal AC input / Full range(100-277V)

Built-in active PFC function

Always-on Auxiliary Power: 12Vdc, 30mA (Transient Peak Current up to 50mA)

Protections: Short circuit / Over voltage

LVLE power unit

Three in one dimming function (0-10Vdc or PWM or resistance)

Suitable Wet locations 100% full load burn-in test High Efficiency :88%-92%(Typ.)

5 years warranty

SPECIFICATION

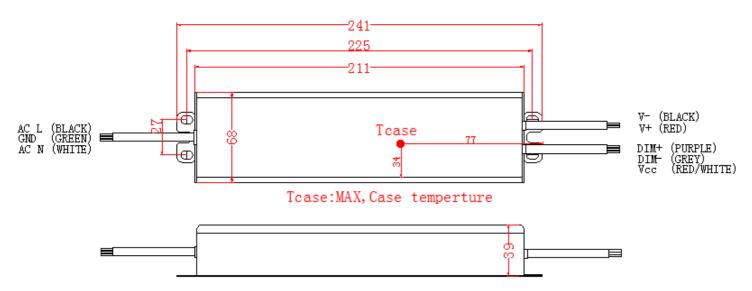
	MODEL	LL-DR-38V2A47-210WYT								
	DC VOLTAGE(Max)	44V								
	CONSTANT CURRENT REGION	23-38V								
	RATED CURRENT	2.47A								
	RIPPLE&NOISE(max.)	100mVp-p								
	CURREN TOLERANCE	±10%								
OUTPUT	LINE REGULATION	±2%								
	LOAD REGULATION	±5%								
	SETUP,RISETIME	<2000ms/ 115VAC at full load , <1000ms / 277V AC at full load								
	HOLD UP TIME(TYP)	16ms at full load 100VAC/277VAC								
	VOLTAGE RANGE	100~277VAC								
	RATED POWER	100W								
	FREQUENCY RANGE	47~63Hz								
INPUT	POWER FACTOR(Typ)	PF>0.92/100VAC~277VAC at full load								
	THD	<20%								
	EFFICIENCY(Typ.)	88%								
	ACCURRENT AT 100W (TYP)	1A / 100VAC, 0.36A /277VAC								
	INRUSH CURRENT(TYP)	COLD START 75A at 277VAC								
	LEAKAGE CURRENT	<0.75mA/277VAC								
	OVER CIRCUIT	95-110 %								
	OVER CIRCUIT	Protection type: Constant current limiting, recovers automatically after fault condition is removed								
	Integral short circuit	Hiccup mode, recovers automatically after fault condition is removed								
PROTE	Open Voltage	48-58V								
CTION	protection	Protection type: Shut down and latch off o/p voltage, re-power on to recover								
		105-120 %								
	Overload protection	Hiccup mode, recovers automatically after fault condition is removed								
	WORKING TEMP.	-40 ~ +60℃								
	WORKING HUMIDITY	20~95%RH non-condensing								
ENVIRO	STORAGE TEMP.,HUMIDITY	-40 ~ +80℃ , 10 ~ 95%RH								
NMENT	TEMP.COEFFICIENT	±0.03%/℃(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								



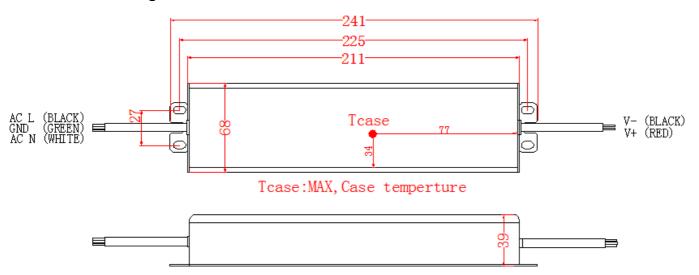
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG: 2KVAC O/P-FG:0.5KVAC								
SAFETY & EMC	ISOLATION RESISTANCE	I/P-O/P , I/P-FG , O/P-FG : 100M Ohms /500VDC /25℃//70%RH								
	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C ;EN61000-3-3								
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV),criteria A								
OTHERS	MTBF	300Khrs min. MIL-HDBK-217F(25℃)								
	DIMENSION	241*68*39mm(L*W*H)								
	PACKING									

Mechanical Specification

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

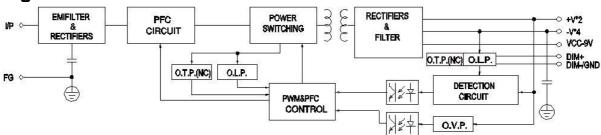


Remark: without dimming switch.

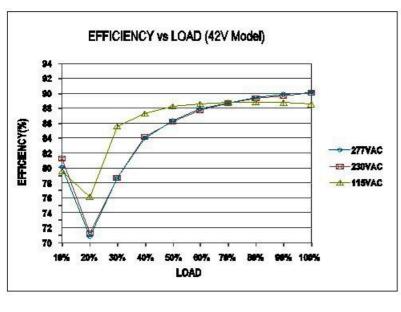




■ Block Diagram



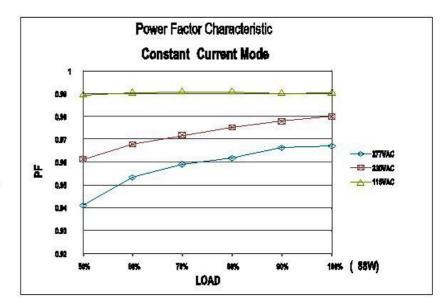
The life time curve:													
TC (℃)	60℃	65℃	70 ℃	75 ℃	80℃	85℃	90℃	95℃	100℃	105℃			
TA (℃)	25℃	30℃	35℃	40℃	45℃	50℃	55℃	60℃	65℃	70℃			
The power of life (Hour)	323531	239850	190225	133791	92923	75409	59646	57311	53029	50110			



DRIVING METHODS

OF LED MODULE

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



3500

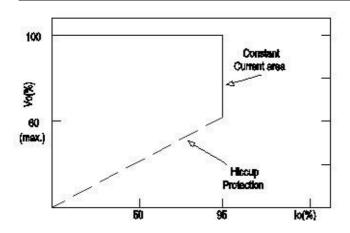
3000 2500

2000

1000

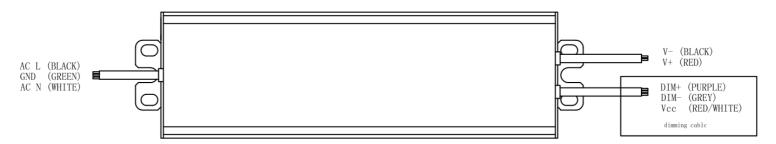
500





Typical LED power supply I-V curve

■ DIMMING OPERATION



Tcase: MAX, Case Temperature

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)

11010101100	Troising residence relies to the content adjustment (Typical)												
	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
Resistance value	Multiple drivers (N=driver quantity for synchronized dimming operation	0 Ω /N	10K Ω /N	20K Ω /N	30K Ω /N	40Κ Ω /N	50K Ω /N	60K Ω /N	70K Ω /N	80K Ω /N	90K Ω /N	100K Ω /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%

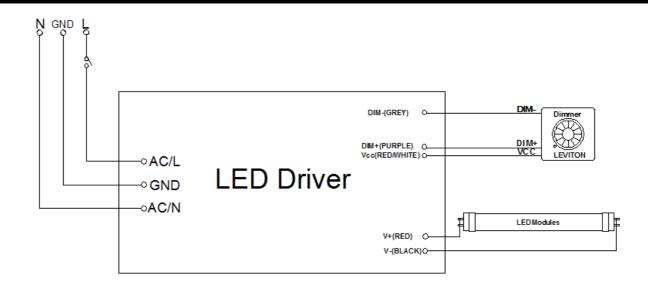
10V PWM signal for output current adjustment (Typical): Frequency range: 100HZ~3KHz

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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% brightnes of the lighting fixture connecting to the LED power supply unit.

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.