

■ 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

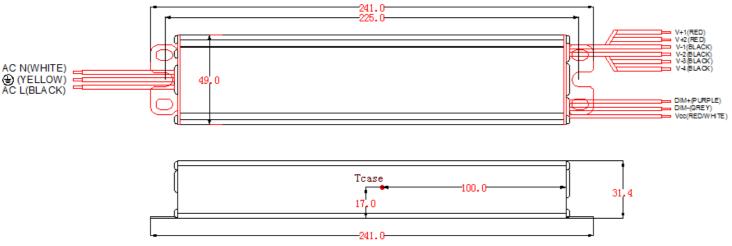
	MODEL	LL-DR-38V1A85-210WYT							
	DC VOLTAGE(Max)	44V							
	CONSTANT CURRENT REGION	23-38V							
	RATED CURRENT	1.85A							
OUTPUT	RIPPLE&NOISE(max.)	100mVp-p							
	CURREN TOLERANCE	±10%							
	LINE REGULATION	±2%							
	LOAD REGULATION	±5%							
	SETUP,RISETIME	<2000ms/ 115VAC at full load , <1000ms / 277V AC at full load							
	HOLD UP TIME(TYP)	16ms at full load 100VAC/277VAC							
	VOLTAGE RANGE	100~277VAC							
	FREQUENCY RANGE	47~63Hz							
	RATED POWER	75W							
	POWER FACTOR(Typ)	PF>0.92/100VAC~277VAC at full load							
INPUT	THD	<20%							
	EFFICIENCY(Typ.)	88%							
	ACCURRENT AT 75W (TYP)	0.75A / 100VAC, 0.27A /277VAC							
	INRUŚH 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							
PROTE	Integral short circuit	Hiccup mode, recovers automatically after fault condition is removed							
CTION	Open Voltage	48-58V							
	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℃)							
	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 &	ISOLATION RESISTANCE	I/P-O/P , I/P-FG , O/P-FG : 100M Ohms /500VDC /25℃//70%RH								
EMC	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	241*49*31.4mm(L*W*H)								
	PACKING									
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 240W is "D" or "N", suffix "D" which represents the dimmer type, suffix "N" which represents in dimmer type.									

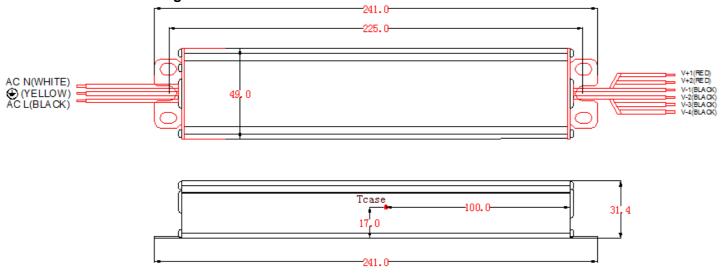
■ Mechanical Specification

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



Tcase: MAX, Case Temperature

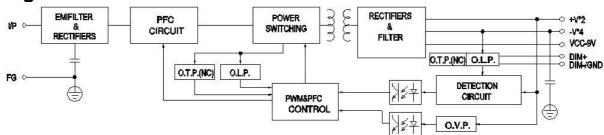
Remark: without dimming switch.



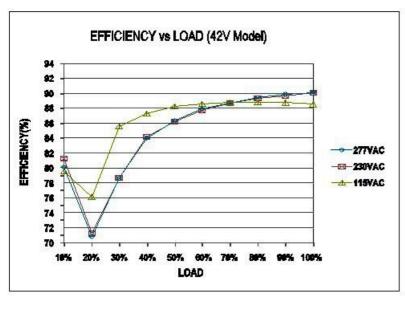
Tcase: MAX, Case Temperature



■ Block Diagram



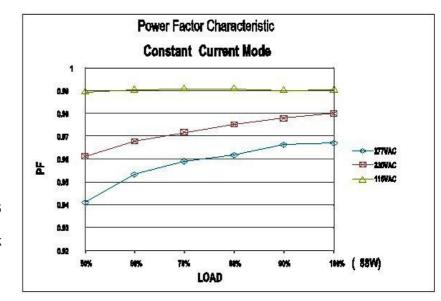
The life time curve:													
TC (℃)	60℃	65℃	70 ℃	75℃	80℃	85℃	90℃	95℃	100℃	1 05 ℃			
TA (℃)	25℃	30℃	35℃	40℃	45℃	50℃	55℃	60℃	65℃	70℃			
The power of life (Hour)	323531	239850	190225	133791	92923	75409	59646	57311	53029	50110			



DRIVING METHODS

OF LED MODULE

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



3500

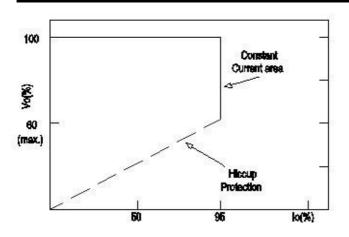
3000

2000

1500

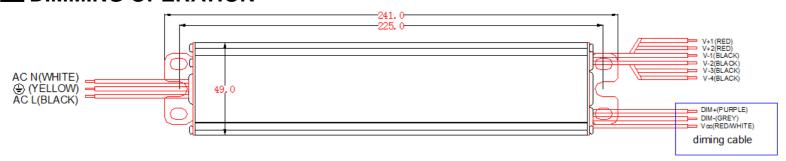
500





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)

Reference resistance value for output current adjustinent (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	40K 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%

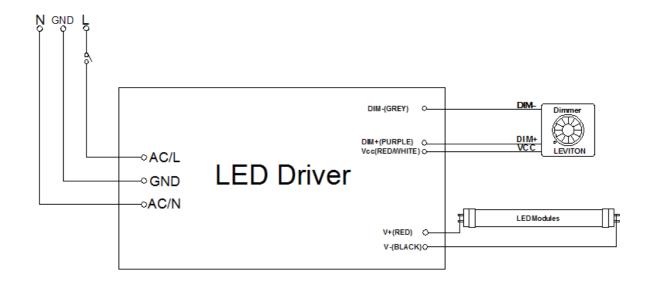
10V PWM signal for output current adjustment (Typical): Frequency range: 100HZ~3KHz

10111	n signai it	or output	ourrent ad	ijastilielit	(Typical).	1 requerie	y range.	100112 011				
Duty value	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Percentage of rated	0%	10%	20%	30%	40%	50%	50%	70%	80%	90%	100%	95%-110%
current												

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.