

### ■ Features:

Universal AC input / Full range(200-480V)

**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**

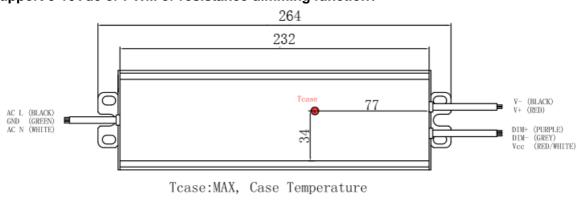
	MODEL	LL-HV-38V3A71-240WYT							
	DC VOLTAGE(Max)	44V							
	CONSTANT CURRENT REGION	23-38V							
	RATED CURRENT	3.71A							
	RIPPLE&NOISE(max.)	150mVp-p							
	CURREN TOLERANCE	±10%							
OUTPUT	LINE REGULATION	±2%							
0011 01	LOAD REGULATION	±5%							
	SETUP,RISETIME	<2000ms/ 200VAC at full load , <1000ms / 480V AC at full load							
	HOLD UP TIME(TYP)	16ms at full load 200VAC /480VAC							
	VOLTAGE RANGE	200~480VAC							
	RATED POWER	150W							
	FREQUENCY RANGE	47~63Hz							
INPUT	POWER FACTOR(Typ)	PF>0.92/200VAC~480VAC at full load							
INFUI	THD	<20%							
	EFFICIENCY(Typ.)	88%							
	ACCURRENT AT 150W (TYP)	0.78A / 200VAC, 0.34A /480VAC							
	INRUSH CURRENT(TYP)	COLD START 75A at 480VAC							
	LEAKAGE CURRENT	<0.75mA/480VAC							
	OVER ORDOUT	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 CTION	Open Voltage	48-58V							
CHON	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 &	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℃)							
	DIMENSION	264*68*39.4mm(L*W*H)							
	PACKING								
NOTE	CI CC' HAZ A AZAZHI C.	er letter V is 4 digit number which represents the output current in ampere for each output channel, for							

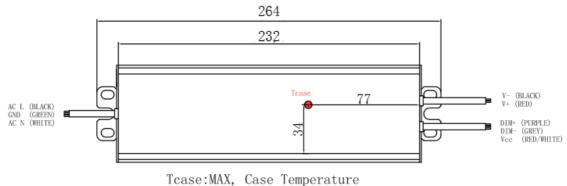
## Mechanical Specification

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

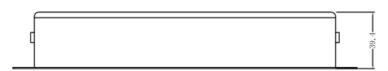




#### Remark: without dimming switch.



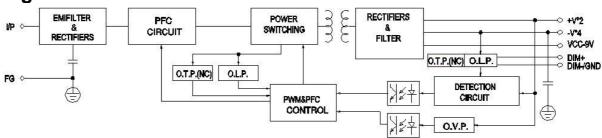
rease:MAX, case remperature



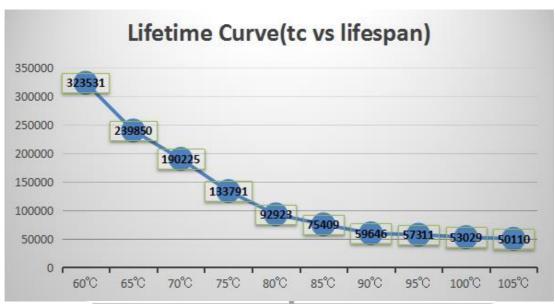
Remark:X=D,P;Support 0-10Vdc or PWM or resistance dimming fun tion, with or without dimming switch(4 bit)

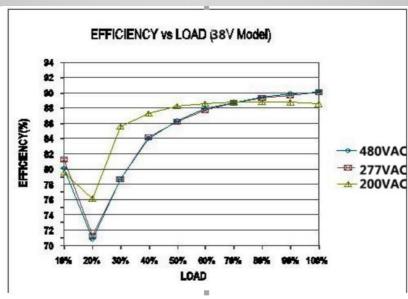


### Block Diagram



The life time	The life time curve:													
<b>TC</b> (℃)	60℃	65℃	<b>70℃</b>	75℃	80℃	<b>85℃</b>	90℃	95℃	100℃	<b>105℃</b>				
<b>TA</b> (℃)	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				

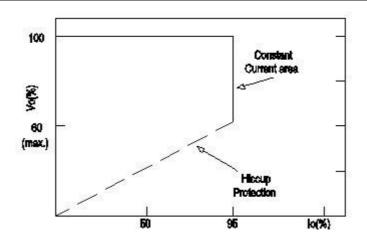




DRIVING METHODS OF LED MODULE

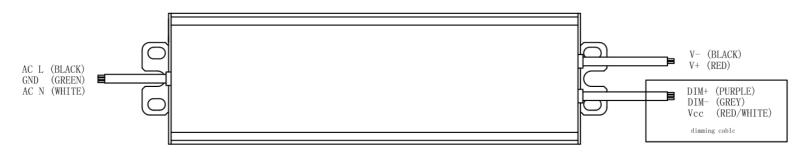
This LED power supply is suggested to work in constant current mode area (CC) to drive the LEDs





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)

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

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

			0.10			,						
Dimming	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
value												
Percentage of rated current	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%-110 %

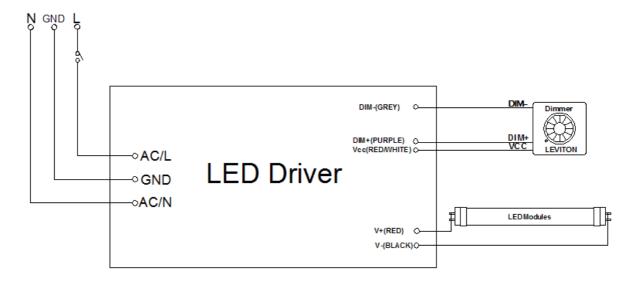
10V PWM signal for output current adjustment (Typical): Frequency range: 100HZ~3KHz

101111	10 V 1 VIIII Signal for Catput Carrent adjustment (Typical): 1 requerity range: 100112 Cities												
Duty value	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN	
,	• 70	,.		0070	1.070	0070	0070	, .	0070	0070	,	0	
Percentage	0%	10%	20%	30%	40%	50%	50%	70%	80%	90%	100%	95%-110%	
of rated								1070					
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.