

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

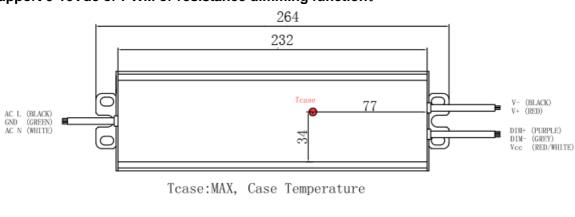
	MODEL	LL-HV-38V3A09-240WYT							
	DC VOLTAGE(Max)	44V							
	CONSTANT CURRENT REGION	23-38V							
	RATED CURRENT	3.09A							
	RIPPLE&NOISE(max.)	150mVp-p ±10%							
	CURREN TOLERANCE								
OUTPUT	LINE REGULATION	±2%							
	LOAD REGULATION	±5%							
	SETUP,RISETIME	<2000ms/ 200VAC at full load, <1000ms / 480V AC at full load							
	HOLD UP TIME(TYP)	16ms at full load 200VAC /480VAC							
	VOLTAGE RANGE	200~480VAC							
	RATED POWER	125W							
	FREQUENCY RANGE	47~63Hz							
	POWER FACTOR(Typ)	PF>0.92/200VAC~480VAC at full load							
INPUT	THD	<20%							
	EFFICIENCY(Typ.)	88%							
	ACCURRENT AT 125W (TYP)	0.63A/200VAC, 0.26A /480VAC							
	INRUSH CURRENT(TYP)	COLD START 75A at 480VAC							
	LEAKAGE CURRENT	<0.75mA/480VAC							
	OVER CIRCUIT	95-110 %							
		Protection type: Constant current limiting, recovers automatically after fault condition is removed							
DDOTE	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							
	Overload protection	105-120 %							
	•	Hiccup mode, recovers automatically after fault condition is removed							
	WORKING TEMP.	-40 ~ +60°C							
=10.00	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℃)							
	DIMENSION	264*68*39.4mm(L*W*H)							
	PACKING								
NOTE		er letter V is 4 digit number which represents the output current in ampere for each output channel, for eans 5.0 A, "0A67" means 0.67 A.							

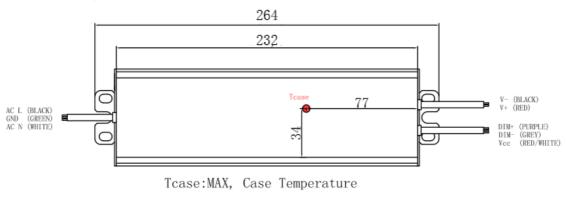
Mechanical Specification

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





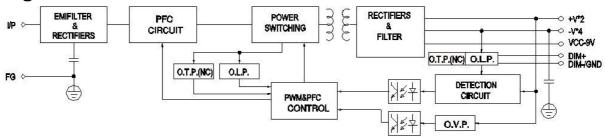
Remark: without dimming switch.



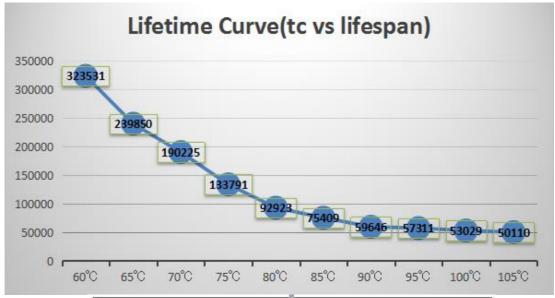


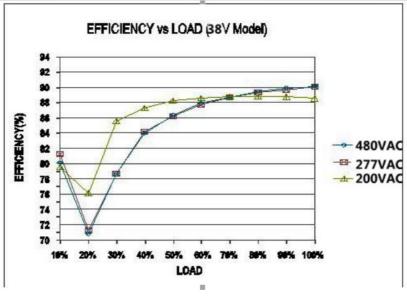


Block Diagram

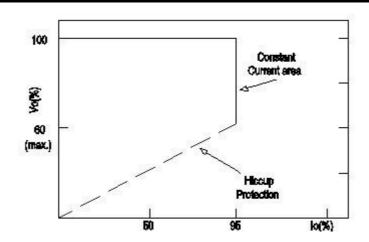


The life time	The life time curve:													
TC (℃)	60℃	65℃	70℃	75℃	80℃	85℃	90℃	95℃	100℃	1 05 ℃				
TA (℃)	25℃	30℃	35℃	40℃	45℃	50℃	55℃	60℃	65℃	70℃				
The power of life (Hour)	323531	239850	190225	133791	92923	75409	59646	57311	53029	50110				



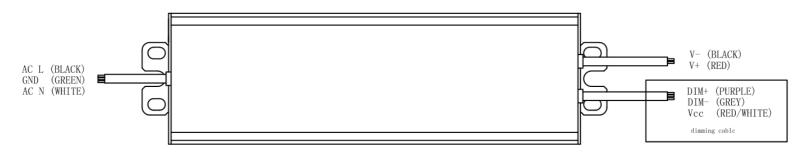






Typical LED power supply I-V curve

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)

	1 7 (7)												
	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	100Κ Ω /N	
Percentage current	e of rated	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%-110 %

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

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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 %

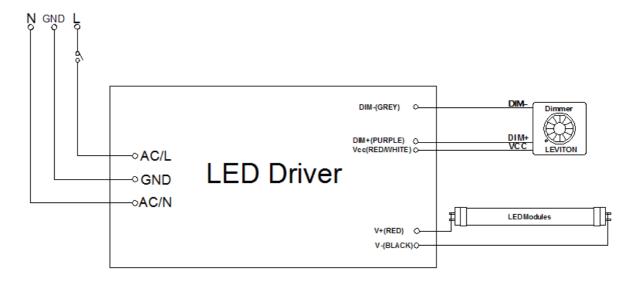
10V PWM signal for output current adjustment (Typical): Frequency range: 100HZ~3KHz

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.