

Features:

4 Channels Intput (44W) Universal AC input / Full range(100-277Vac) Built-in active 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 :88%-90%(Typ.) 5 years warranty

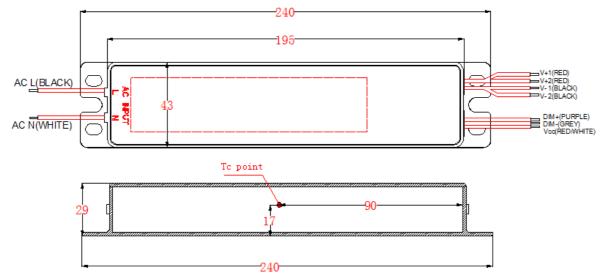
SPECIFICATION

	MODEL	LL-DR-44W-4TX							
	DC VOLTAGE(Max)	48V							
	CONSTANT CURRENT REGION	23-42V							
	RATED CURRENT	1.092A							
	RIPPLE&NOISE(max.)	2Vр-р							
	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 277VAC / 115VAC							
	VOLTAGE RANGE	100~277VAC							
	RATED POWER	44W							
	FREQUENCY RANGE	47~63Hz							
	POWER FACTOR(Typ)	PF>0.99/115VAC, PF>0.98/230VAC, PF>0.95/277VAC at full load							
INPUT	THD	<20%							
	EFFICIENCY(Typ.)	90%							
	ACCURRENT AT 44W	0.44A / 115VAC 0.16A / 277VAC							
	(TYP)								
	INRUSH	COLD START 75A at 277VAC							
	CURRENT(TYP)	0.75							
	LEAKAGE CURRENT	<0.75mA/277VAC							
	OVER CIRCUIT	95-110 %							
		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	-40 ~ +80 ℃ , 10 ~ 95%RH							
	TEMP., HUMIDITY								
NMENT	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-							
	WITHSTAND	I/P-O/P:3.75KVAC I/P-FG: 2KVAC O/P-FG:0.5KVAC							
SAFETY	VOLTAGE								
&	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℃)							

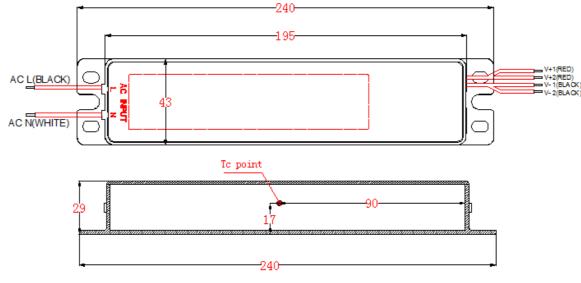
	DIMENSION	240*43*29mm(L*W*H)
NOTE		upport 0-10Vdc or PWM onsupport dimming function,without dimming switch.



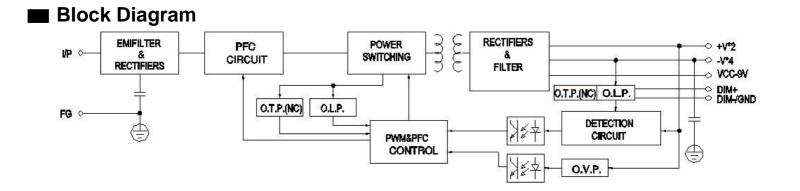
Mechanical Specification



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

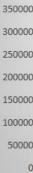


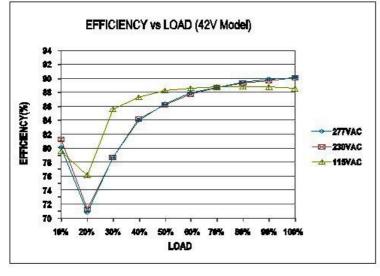
Remark: without dimming switch.

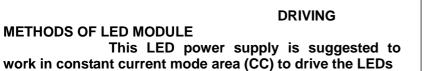


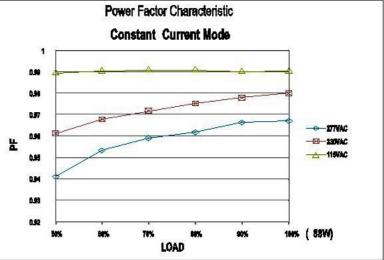


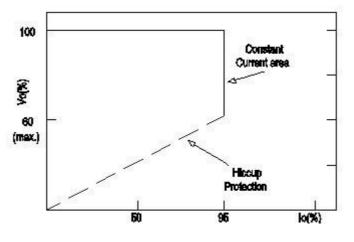
The life time	curve:									
TC (°C)	60°C	65℃	70°C	75℃	30℃	85 ℃	90°C	95°C	100℃	1 05° C
TA (°C)	25℃	30°C	35℃	40°C	45℃	50°C	55°C	60°C	65°C	70°C
The power of life (Hour)	323531	239850	190225	133791	92923	75409	59646	57311	53029	50110







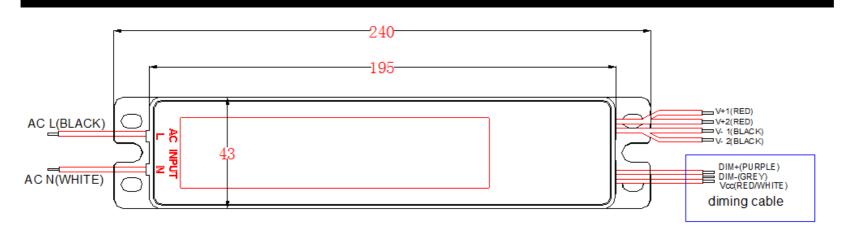




Typical LED power supply I-V curve

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)

	Single driver	0 Ω	10Κ Ω	20Κ Ω	30Κ Ω	40Κ Ω	50Κ Ω	60Κ Ω	70Κ Ω	80Κ Ω	90Κ Ω	100Κ Ω	OPEN
Resistance value	Multiple drivers (N=driver quantity for synchronized dimming operation	0 Ω /Ν	10Κ Ω /Ν	20Κ Ω /Ν	30Κ Ω /Ν	40Κ Ω /Ν	50Κ Ω /Ν	60Κ Ω /Ν	70Κ Ω /Ν	80K Ω /N	90Κ Ω /Ν	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)

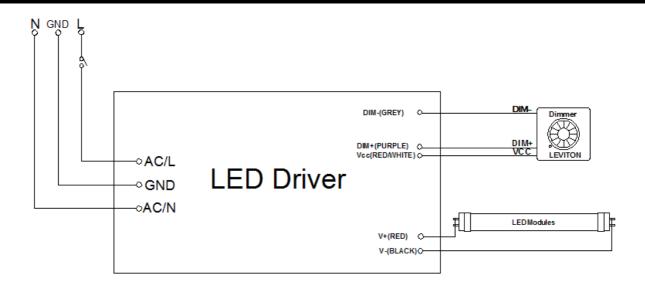
Dimming value	0V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%-110%

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.





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.