

Features:

2 Channels Intput (36W) 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

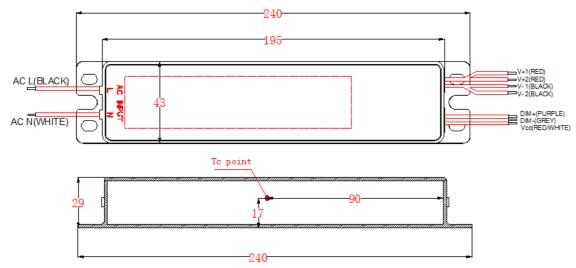
SPECIFICATION

	MODEL	LL-DR-36W-2TX
	DC VOLTAGE(Max)	48V
	CONSTANT CURRENT REGION	23-42V
	RATED CURRENT	0.89A
	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
INPUT	VOLTAGE RANGE	100~277VAC
	RATED POWER	36W
	FREQUENCY RANGE	47~63Hz
	POWER FACTOR(Typ)	PF>0.99/115VAC, PF>0.98/230VAC, PF>0.95/277VAC at full load
	THD	<20%
-	EFFICIENCY(Typ.)	90%
	ACCURRENT A⊺ 36W (TYP)	0.31A / 115VAC 0.13A / 277VAC
	INRUSH CURRENT(TYP)	COLD START 75A at 277VAC
	LEAKAGE CURRENT	<0.75mA/277VAC
		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	50-60V
	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°C
	WORKING HUMIDITY	20~95%RH non-condensing
ENVIRO	STORAGE TEMP.,HUMIDITY	-40 ~ +80 ℃ , 10 ~ 95%RH
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

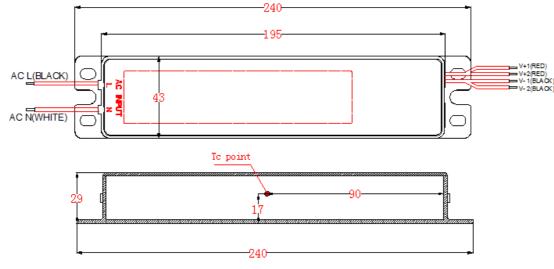


SAFETY & EMC	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG: 2KVAC O/P-FG:0.5KVAC								
	ISOLATION RESISTANCE	I/P-O/P , I/P-FG , O/P-FG : 100M Ohms /500VDC /25℃//70%RH								
	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C ;EN61000-3-3								
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV), criteria A								
OTHERS	MTBF	300Khrs min. MIL-HDBK-217F(25°C)								
	DIMENSION	240*43*29mm(L*W*H)								
	PACKING									
NOTE	X=P,S X=P:support 0-10Vdc or PWM X=S:nonsupport dimming function,without dimming switch.									

Mechanical Specification

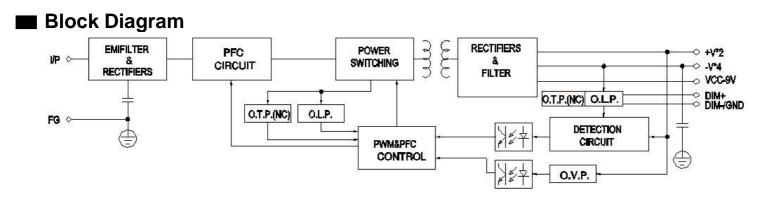


Remark: Support 0-10Vdc or PWM or resistance dimming function.



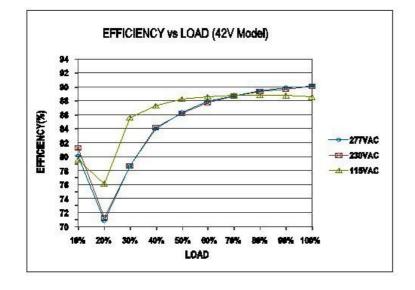
Remark: without dimming switch.





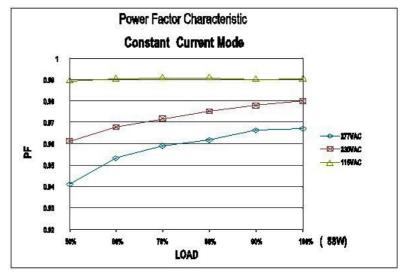
The life time curve:											
TC (ზ)	60°C	65 ℃	70°C	75℃	30°C	85℃	90°C	95°C	1 00℃	1 05℃	
TA (℃)	25° C	30°C	35℃	40℃	45℃	50°C	55℃	60°C	65°C	70°C	
The power of life (Hour)	323531	239850	190225	133791	92923	75409	59646	57311	53029	50110	



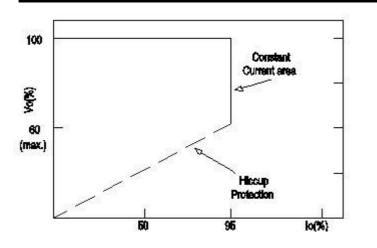


DRIVING METHODS OF LED MODULE This LED power supply is suggested to w

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

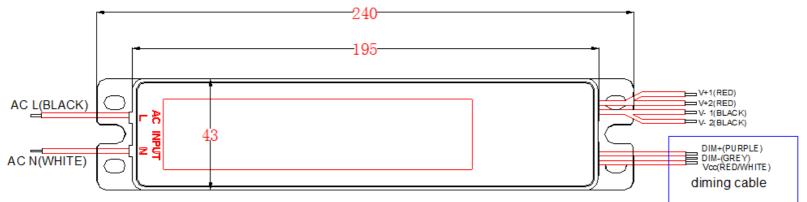






Typical LED power supply I-V curve

■ DIMMING OPERATION



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	10K Ω /N	20Κ Ω /Ν	30K Ω /N	40K Ω /N	50K Ω /N	60K Ω /N	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	ov	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%

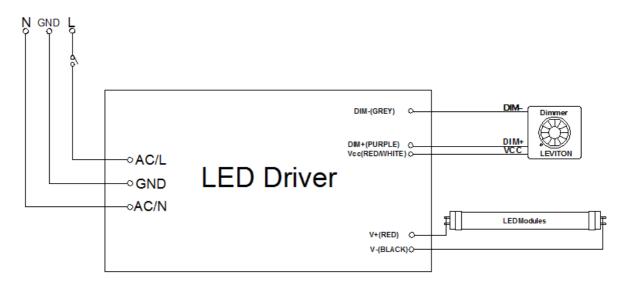
10V PWM signal for output current adjustment (Typical): Frequency range: 100HZ~3KHz

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.