

Features:

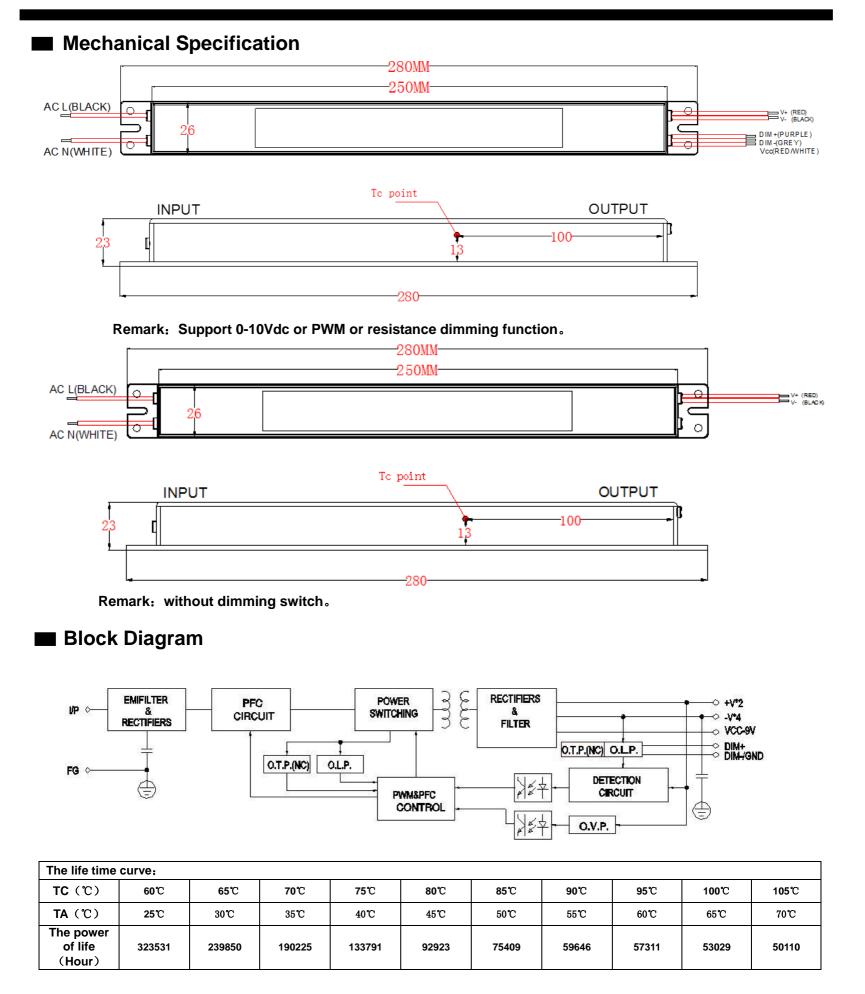
AC input (100-277VAC) Built-in PFC function Protections:Short circuit / Over voltage LVLE power unit Three in one dimming function (0-10Vdc or PWM or resistance) Suitable dry / damp locations 100% full load burn-in test High Efficiency :86%-88%(Typ.) 5 years warranty

SPECIFICATION

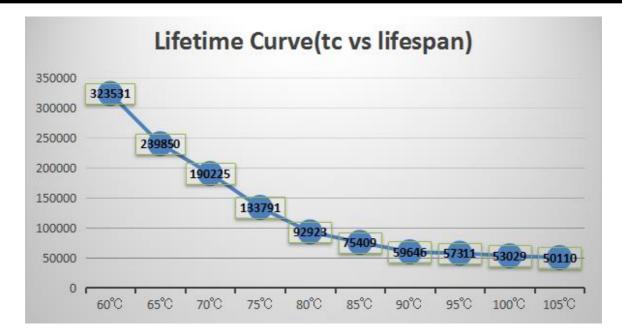
	MODEL	LL-DR-15W
	DC VOLTAGE(Max)	48V
	CONSTANT CURRENT REGION	23-42V
	RATED CURRENT	0.37A
	RIPPLE&NOISE(max.)	2Vр-р
	CURREN TOLERANCE	±10%
OUTPUT	LINE REGULATION	±2%
	LOAD REGULATION	±5%
	SETUP, RISETIME	<2000ms/ 115VAC at full load , <1000ms / 277V AC at full load
	HOLD UP TIME(TYP)	16ms at full load 277VAC / 115VAC
	VOLTAGE RANGE	100~277VAC
	RATED POWER	15W
	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 A⊺ 15W (TYP)	0.15A / 100VAC 0.054A / 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
		20~95%RH non-condensing
ENVIRO	STORAGE TEMP.,HUMIDITY	-40 ~ +80 °C , 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		Compliance to EN55015_EN61000-3-2 Class C :EN61000-3-3

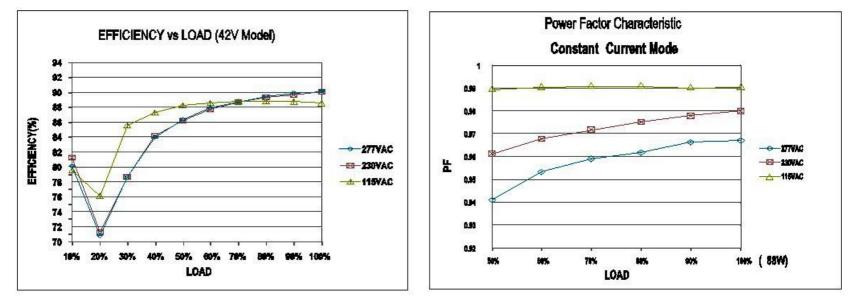
&	RESISTANCE							
EMC	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C ;EN61000-3-3						
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV),criteria A						
OTHERS	MTBF	300Khrs min. MIL-HDBK-217F(25℃)						
OTHERS	DIMENSION	280*26*23mm(L*W*H)						



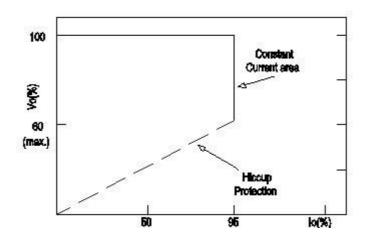








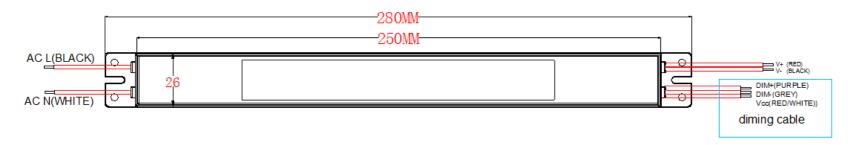
DRIVING METHODS OF LED MODULE This LED power supply is suggested to work in constant current mode area (CC) to drive the LEDs





Typical LED power supply I-V curve

DIMMING OPERATION



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)

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	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	20K Ω /N	30K Ω /N	40K Ω /N	50K Ω /N	60Κ Ω /Ν	70Κ Ω /Ν	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%

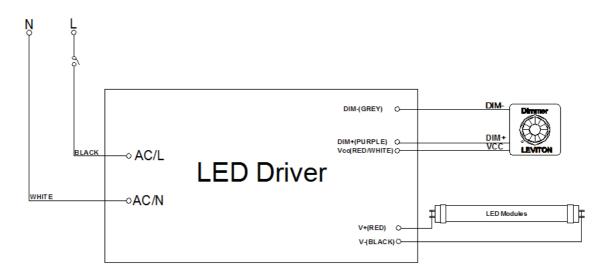
10V PWM signal for output current adjustment (Typical): Frequency range: 100HZ~3KHz

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Duty value	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Percentage	0%	10%	20%	30%	40%	50%	50%	70%	80%	90%	100%	95%-110%
of rated 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.