

Features:

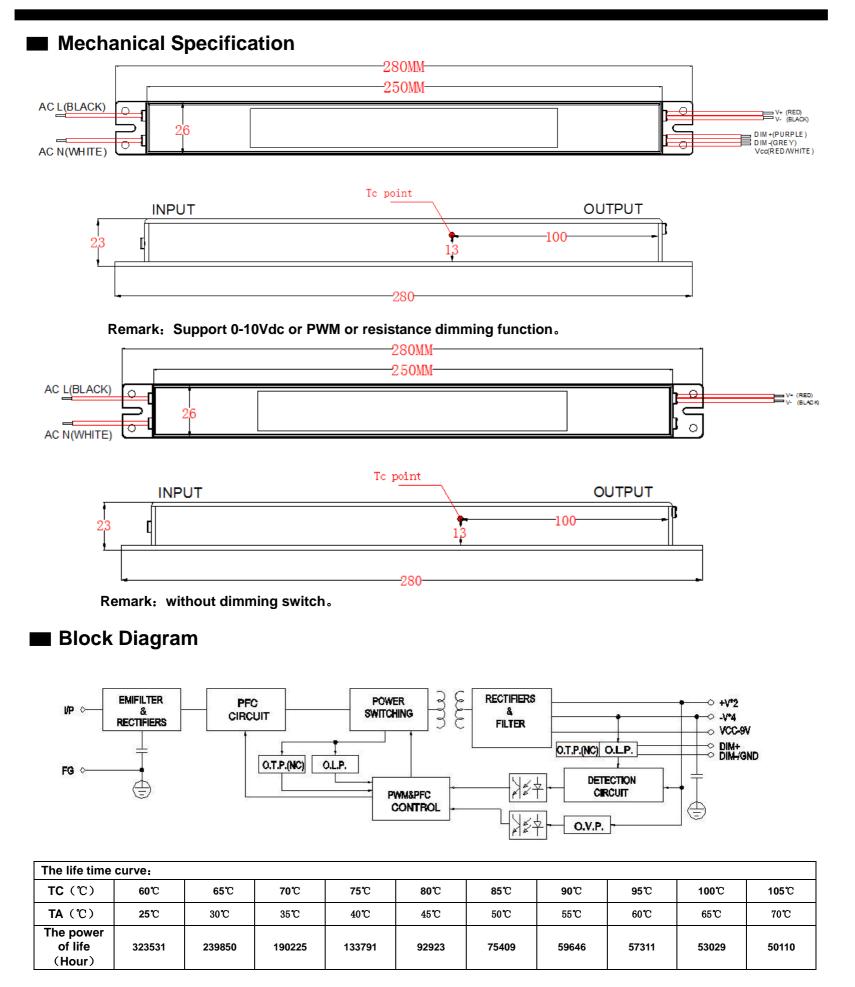
AC input (100-277VAC) Built-in PFC function Protections:Short circuit / Over voltage LVLE power unit Three in one dimming function (0-10Vdc or PWM or resistance) Suitable dry / damp locations 100% full load burn-in test High Efficiency :86%-88%(Typ.) 5 years warranty

SPECIFICATION

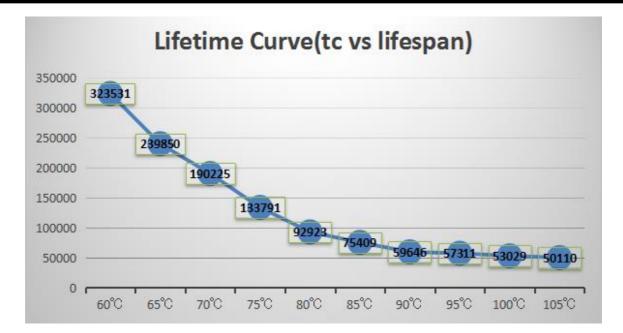
	MODEL	LL-DR-18W						
	DC VOLTAGE(Max)	48V						
	CONSTANT CURRENT REGION	23-42V						
	RATED CURRENT	0.445A						
	RIPPLE&NOISE(max.)	2Vр-р						
	CURREN TOLERANCE	±10%						
OUTPUT	LINE REGULATION	±2%						
	LOAD REGULATION	±5%						
	SETUP, RISETIME	<2000ms/ 115VAC at full load , <1000ms / 277V AC at full load						
	HOLD UP TIME(TYP)	16ms at full load 277VAC / 115VAC						
	VOLTAGE RANGE	100~277VAC						
	RATED POWER	18W						
	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⊺ 18W (TYP)	0.18A / 100VAC 0.065A / 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						
onon	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%/℃(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°C//70%RH						
EMC		Compliance to EN55015_EN61000-3-2 Class C ·EN61000-3-3						

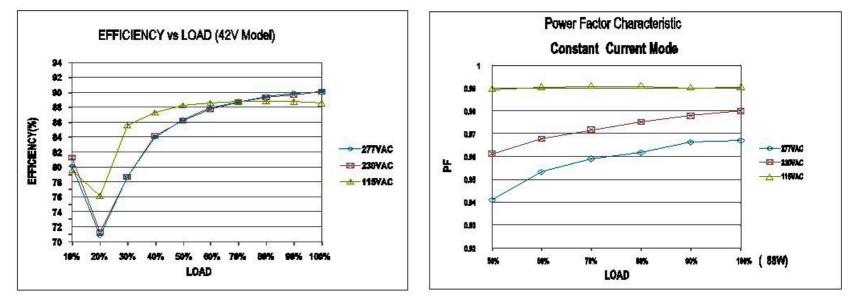
	&	RESISTANCE	
	EMC	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C ;EN61000-3-3
		EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, EN55024, light industry level (surge 4KV),criteria A
	OTHERS	MTBF	300Khrs min. MIL-HDBK-217F(25℃)
0	OTHERS	DIMENSION	280*26*23mm(L*W*H)



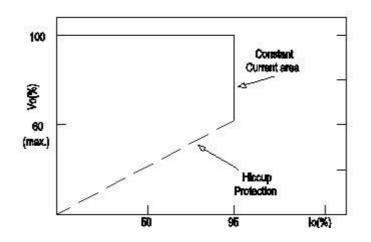








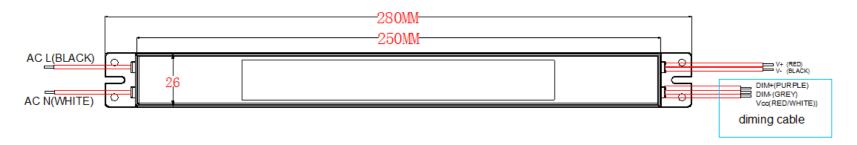
DRIVING METHODS OF LED MODULE This LED power supply is suggested to work in constant current mode area (CC) to drive the LEDs





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)

						-							
	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%

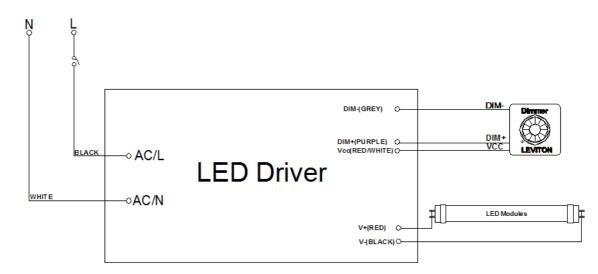
10V PWM signal for output current adjustment (Typical): Frequency range: 100HZ~3KHz

Γ	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%
	of rated current											l l	

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.