Product description



Isolated LED driver designed for class II light fixtures.

Category: 0-10V/PWM/Rx dimming, plastic casing

Product properties: active PFC, high PF, high efficiency, low THD

Application: commercial lighting, residential lighting and decorative lighting.

Warranty: 5 years (please refer to the warranty condition).

Certificate:









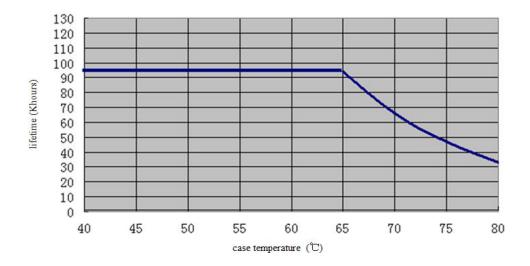
Technical data

	Output voltage	27-42 VDC							
	Output current	700mA							
	Ripple current	< 300mA							
	Ripple voltage	< 4V							
Output	Current tolerance	±5%							
	Time to light	100Vac<1S 230Vac <0.5S 277ac <0.5S							
	Temperature drift	±10%							
	Output Line regulation	±5%							
	Input Line regulation	±5%							
	Rated input voltage	100-240 Vac, 277 Vac (Max input voltage: 90-305Vac)							
	Frequency	47Hz-63Hz							
	Input current	0.5A Max							
		≥0.98/100Vac							
	Power factor	≥0.95/230Vac							
Input		≥0.90/277Vac							
	THD	≤20%							
		≥84%/100Vac							
	Efficiency	≥86%/230Vac							
		≥85%/277Vac							
	In-rush current	I<60A/300uS@230Vac							
	Typical stand-by power consumption	Pin<1W							
Protective	No-load	Max. output voltage (no-load voltage) 55V							
Features	Short-circuit	Hiccup mode (auto-recovery)							
Environment Condition	Working temperature	-30°C - +50°C							

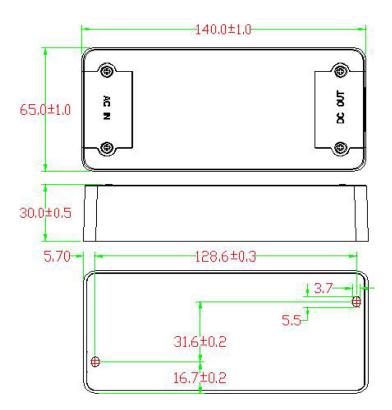
	Working humidity	20-90%RH (no condensation)							
	Storage temperature/humidity	-40℃ ~ +80℃ (6 months under the class I environment); 10-90%RH (no condensation)							
	Atmospheric pressure	86-106KPa							
	Certificate	ENEC, CE, CB, RCM							
	Hi-pot test	I/P-O/P: 4KVAC, <5mA, 60S							
Safety &	Insulation resistance	I/P-O/P: 500VAC, >100MΩ							
Norms	Surge rating	Conform to IEC61000-4-5(L/N: 1KV)							
	EMI	Conform to EN55015, EN61000-3-2.							
	EMS	Conform to EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547.							
	Packing (weight) Net weight: 185g±5%/pc; 30pcs/carton; 6.5KG±5%/carton. Carton size: 39 x 29 x 21 cm (LxWxH).								
Others	IP rating	ating IP20							
	Warranty condition	5 years (Max. case temperature must not exceed 75℃).							
Test Equipment	electronic load: M97 Everfine EMS61000-5	HROMA6530, digital power meter: CHROMA66202, Oscilloscope: Tektronix DPO3014, DC 12B, LED board, constant temperature and humidity chamber, lightning surge generator: 5B, rapid group pulse generator: Everfine EMS61000-4A, spectrum analyzer: KH3935, hi-pot boscope (flicker index tester) 60N-01, etc.							
Test Condition		ted, the electrical parameters above, including the power factor, THD and efficiency, are tested appearature 25 $^\circ$ C and humidity 50%, input 230Vac and 90% load.							
	It is recommended that customer should install protection devices for surge, for overvoltage and for undervoltage to ensure safety before connecting to electricity.								
Additional Remark	2. The PC cover, casing, end caps and other parts of the LED driver inside the LED light fixture must conform to UL94-V0 flammability standard or above.								
	3. As an accessory, the LED driver is not the only factor determining the EMC performance of the LED luminaire. The structure and the wiring of the light fixture are also relevant. Thus it's strongly recommended the LED light fixture manufacturer re-confirms the EMC of the whole LED light fixture.								

Lifetime Curve

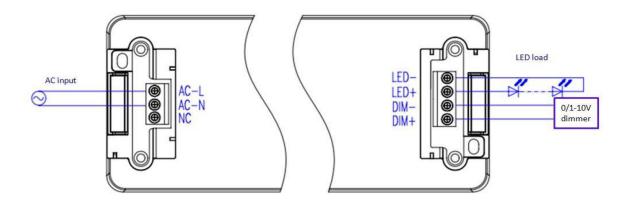
The curve below illustrates the driver's lifetime data when its maximum casing temperature in an airtight space reaches 40° C, 50° C, 70° C and 80° C.



Dimension (unit: mm)



Wiring Diagram



Dimming

1) 0-10V dimming, dimming range 10%~100% (the LED lights might flicker when the voltage signal is with the 0-1V range).

voltage signal	0	1	2	3	4	5	6	7	8	9	10	OPEN
output current percentage	3%	5%	10%	25%	40%	50%	60%	70%	80%	90%	100%	95%-105%

2) PWM dimming, dimming range 10~100%, the voltage amplitude is 10V and the frequency of PWM signal is500Hz~5KHz.

PWM signal	0	1	2	3	4	5	6	7	8	9	10	OPEN
output current percentage	3%	5%	10%	25%	40%	50%	60%	70%	80%	90%	100%	95%-105%

3) Resistance dimming

Rx signal	0K	10K	20K	30K	40K	50K	60K	70K	80K	90K	100K	OPEN
Current		40MA	160MA	256MA	331MA	420MA	530MA	597MA	707MA	707MA	708MA	706MA

Remark: the output current percentages above are typical values.