

Description:

EFC-30 30W Small Size long-life series, No 100/120Hz flicker; LED Driver with Rubycon long life capacitors, high efficiency, high power factor, 100% no flicker, No Visible Flicker - No Invisible - No Imperceptible Flicker* to protect your eyes. Meet the certification requirements around the world!



1. 100% No Flicker - No Invisible or Imperceptible Flicker
2. High efficiency 90%, high power factor (> 0.9)
3. Rubycon long life capacitors -10 times life of the ordinary capacitor
4. Protections: Short circuit / Overload / Over voltage / Over temperature
5. IP67 design for indoor or outdoor installations
6. 3750V HI-POT TEST
7. Compliance to worldwide safety regulations for lighting
8. 3 years warranty

SPECIFICATION

MODEL		EFC-30-12	EFC-30-24	EFC-30-36	EFC-30-42	EFC-30-60
OUTPUT	Rated current	2.5A	1.25A	0.9A	0.7A	0.5A
	Constant Current Region	9~12V	15~24V	26~36V	32~42V	45~60V
	Current Accuracy	5%	5%	5%	5%	5%
	Rated Power	30W	30W	32.4W	29.4W	30W
	Setup time	<500 ms				
	Ripple & Noise	0.5% Operating Voltage				
INPUT	Voltage range	100~265VAC,				
	Power factor	PF> 0.9 at full load and rated output voltage				
	Max AC Current	0.6A/100VAC	0.3A/230VAC			
	Frequency range	47~65Hz				
	Efficiency (Typ.)	85%	87%	88%	89%	90%
PROTECTION	Short Circuit	short circuit protection , Auto Recovery				
	Over Temperature	Maximum temperature of components inside the case				
	Over Voltage	14.5~18V	26~32V	40~46V	46~52V	65~75V
ENVIRONMENT	Working TEMP	-25℃~50℃				
	Storage TEMP.	-40℃~80℃10 ~ 95% RH				
	Working Humidity	20 ~ 95% RH non-condensing				
	Vibration	10~500Hz 2G 10min/1cycle period for 60min. each along X, Y, Z axes				
	TEMP. coefficient	±0.03%/℃ (0~50℃)				
SAFETY & EMC	Safety Standards	CE EN 61347-1, EN61347-2-13 Design refer to UL1310 Class 2, IP67 approved				
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC				
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25 / 70% RH				
	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2 Class A, EN61000-3-3				
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A				
OTHER	MTBF	600KHours MIL-HDBK-217F (25℃)				
	Dimension	139x29x21.2mm				
	Weight	160g				

Direct connecting to LEDs is not using additional drivers is highly recommended

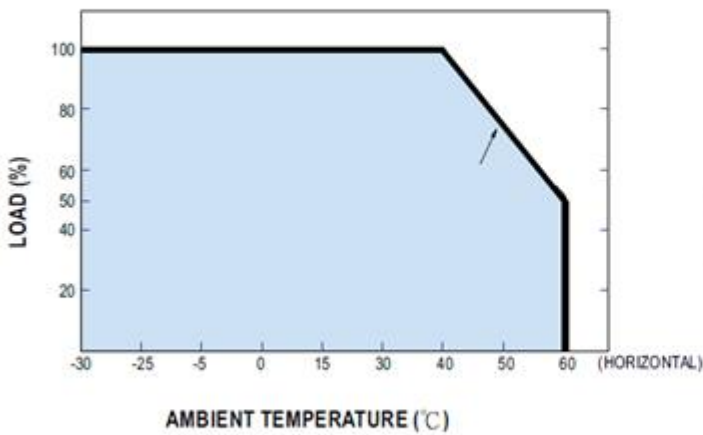
Before ordering, please confirm the sample.

Mechanical Specification

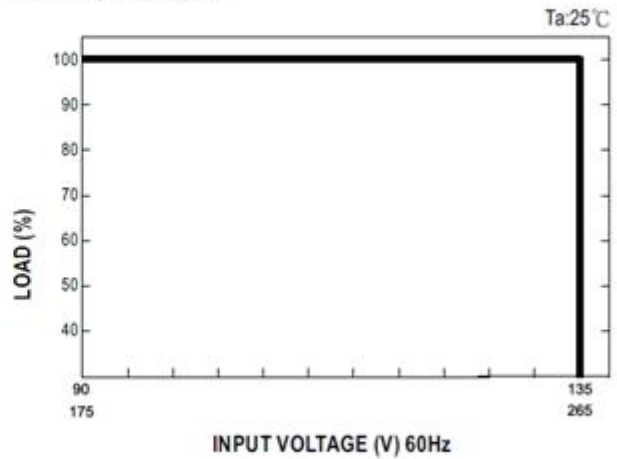


Unit:mm

Derating Curve



Static Characteristics



How to identify Invisible or Imperceptible Flicker:

The easiest way is: take out your camera or mobile phone with a camera function, close-up shots lamp light source, less than 30cm (high brightness point light source is required to use the lampshade diffusion cover), flicker the lamps will show blinds or appear regularly stripes; the no flicker lamps like a blank sheet of paper, not streaks.

The Invisible or Imperceptible flicker, can also affect human health, such as: The effects can range from headache to the decreased visual performance to non-specific malaise to the onset of some forms of epilepsy. [IEEE P1789](http://www.ieee.org)