CV/CC LED Driver- No flicker

EFC-09 series

Http: www.xinelam.com

C (W RoHS

Description:

XineLam

EFC-09 series, No 100/120Hz flicker, Real long-life LED Drivers with Rubycon long life capacitors, long life, high efficiency, Provides ±5% CV and ±10% CC accuracy, EcoSmart® - Meets all current international energy efficiency standards - (CECP) / CEC / ENERGRY STAR EPS v2 / EU CoC / EISA 2007



- 1. No Visible Flicker No Invisible or Imperceptible Flicker
- 2. Real Long-life, 50000Hours
- Rubycon long-life capacitors, 10 times longer than ordinary life electrolytic capacitors
- 4. Protections: Short circuit / Overload / Over voltage / Over temperature
- 5. IP67 design for indoor or outdoor installations
- 6. 100% full load burn-in test
- 7. Suitable for LED lighting and moving sign applications
- 8. Compliance to worldwide safety regulations for lighting
- 9. 3 years warranty

	MODEL	EFC-09-12	EFC-09-18	EFC-09-24	EFC-09-30	EFC-09-36	EFC-09-42	
OUTPUT	Rated current	700mA	500mA	400mA	320mA	300mA	230mA	
	Constant Current Region	9~12V	12~18V	15~24V	24~30V	24~36V	30~42V	
	Current Accuracy	5%	5%	5%	5%	5%	6%	
	Rated Power	8.4W	9W	9.6W	9.6W	10.8W	9.66W	
	Setup time	<300 ms						
	Ripple & Noise	0.5% Operating	0.5% Operating Voltage					
INPUT	Voltage range	90~265VAC,	90~265VAC,					
	Power factor	PF> 0.6 at full load and rated output voltage						
	Max AC Current	0.4A/100VAC	0.4A/100VAC 0.2A/230VAC					
	Frequency range	47~65Hz						
	Efficiency (Typ.)	80%	81%	82%	83%	85%	85%	
PROTECTION	Short Circuit	short circuit prot	short circuit protection , Auto Recovery					
	Over Temperature	Maximum temperature of components inside the case						
	Over current	95% ~ 110%	95% ~ 110% Protection type : Constant current limiting, recovers automatically after fault condition					
	Over current		Fiblection type . (nung, recovers au	tomatically after to	ault condition	
		removed			ining, recovers au		ault condition	
	Working TEMP				ining, recovers au			
		removed					ault condition	
ENVIRONMENT	Working TEMP	removed -25℃~50℃	95% RH					
ENVIRONMENT	Working TEMP Storage TEMP.	removed -25℃~50℃ -40℃~80℃10~ 20~ 95% RH no	95% RH pn-condensing	for 60min. each alo				
ENVIRONMENT	Working TEMP Storage TEMP. Working Humidity	removed -25℃~50℃ -40℃~80℃10~ 20~ 95% RH no	95% RH pn-condensing 0min/1cycle period					
ENVIRONMENT	Working TEMP Storage TEMP. Working Humidity Vibration	removed -25℃~50℃ -40℃~80℃10~ 20~95% RH no 10~500Hz 2G 10 ±0.03%/℃ (0~5	95% RH on-condensing Omin/1cycle period		ng X, Y, Z axes			
ENVIRONMENT	Working TEMP Storage TEMP. Working Humidity Vibration TEMP. coefficient	removed -25℃~50℃ -40℃~80℃10~ 20~95% RH no 10~500Hz 2G 10 ±0.03%/℃ (0~5	95% RH on-condensing 0min/1cycle period 50°C) , EN61347-2-13 De	for 60min. each alo	ng X, Y, Z axes		ault condition	
ENVIRONMENT SAFETY & EMC	Working TEMP Storage TEMP. Working Humidity Vibration TEMP. coefficient Safety Standards	removed -25°C~50°C -40°C~80°C10~ 20~95% RH nd 10~500Hz 2G 1 ±0.03%/°C (0~5 CE EN 61347-1 //P-O/P:3.75KV/	95% RH on-condensing 0min/1cycle period 50°C) , EN61347-2-13 De	for 60min. each alo esign refer to UL131	ng X, Y, Z axes		ault condition	
	Working TEMP Storage TEMP. Working Humidity Vibration TEMP. coefficient Safety Standards WITHSTAND VOLTAGE	removed -25℃~50℃ -40℃~80℃10~ 20~95% RH nd 10~500Hz 2G 10 ±0.03%/℃ (0~5) CE EN 61347-1 I/P-O/P:3.75KV/ I/P-O/P:>100M d	95% RH on-condensing 0min/1cycle period 50°C) , EN61347-2-13 De AC Dhms / 500VDC / 2	for 60min. each alo esign refer to UL131	ng X, Y, Z axes 0 Class 2, IP67 ap	proved		
	Working TEMP Storage TEMP. Working Humidity Vibration TEMP. coefficient Safety Standards WITHSTAND VOLTAGE ISOLATION RESISTANCE	removed -25℃~50℃ -40℃~80℃10~ 20~95% RH nd 10~500Hz 2G 10 ±0.03%/℃ (0~5) CE EN 61347-1 I/P-O/P:3.75KV/ I/P-O/P:>100M 0 Compliance to E	95% RH on-condensing 0min/1cycle period 50°C) , EN61347-2-13 De AC Ohms / 500VDC / 2 :N55022 (CISPR22	for 60min. each alo esign refer to UL131 25 / 70% RH	ng X, Y, Z axes 0 Class 2, IP67 ap 0-3-2 Class A, EN6	proved 1000-3-3		
	Working TEMP Storage TEMP. Working Humidity Vibration TEMP. coefficient Safety Standards WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	removed -25°C ~50°C -40°C ~80°C10 ~ 20 ~ 95% RH nd 10~500Hz 2G 10 ±0.03%/°C (0~5) CE EN 61347-11 I/P-O/P:3.75KV/ I/P-O/P:>100M d Compliance to E Compliance to E	95% RH on-condensing 0min/1cycle period 50°C) , EN61347-2-13 De AC Ohms / 500VDC / 2 :N55022 (CISPR22	for 60min. each alo esign refer to UL131 25 / 70% RH 2) Class B, EN61000 6,8,11, EN55024, lig	ng X, Y, Z axes 0 Class 2, IP67 ap 0-3-2 Class A, EN6	proved 1000-3-3		
	Working TEMP Storage TEMP. Working Humidity Vibration TEMP. coefficient Safety Standards WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	removed -25°C ~50°C -40°C ~80°C10 ~ 20 ~ 95% RH nd 10~500Hz 2G 10 ±0.03%/°C (0~5) CE EN 61347-11 I/P-O/P:3.75KV/ I/P-O/P:>100M d Compliance to E Compliance to E	95% RH on-condensing 0min/1cycle period 50°C) , EN61347-2-13 De AC Dhms / 500VDC / 2 :N55022 (CISPR22 :N61000-4-2,3,4,5,	for 60min. each alo esign refer to UL131 25 / 70% RH 2) Class B, EN61000 6,8,11, EN55024, lig	ng X, Y, Z axes 0 Class 2, IP67 ap 0-3-2 Class A, EN6	proved 1000-3-3		

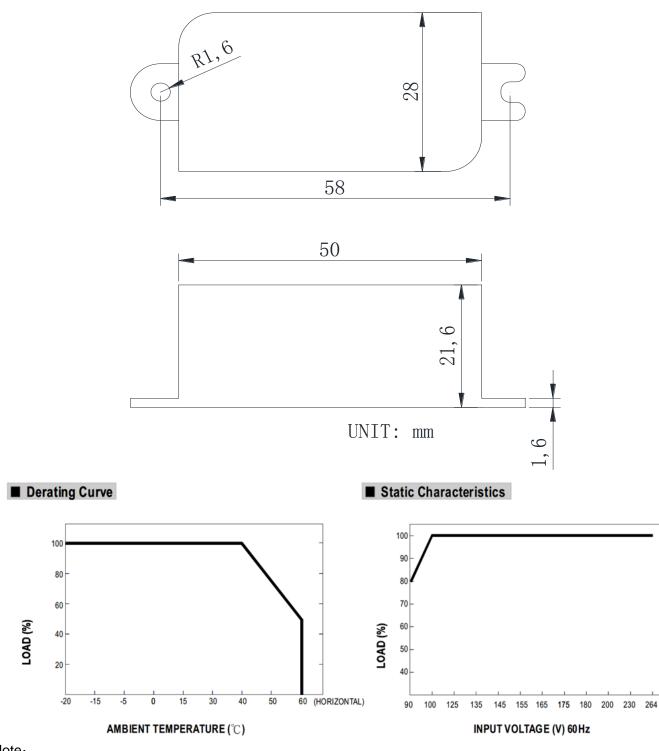
SPECIFICATION



EFC-09 series

Http: www.xinelam.com

Mechanical Specification



Note:

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 of ambient temperature.

2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47 uf parallel capacitor.

3. Tolerance : includes set up tolerance, line regulation and load regulation.

4. Derating may be needed under low input voltage. Please check the static characteristics for more details.

5. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the

complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.

6. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.

7. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute.