

LED Driver - 12vdc 30W Constant Voltage Slim



Features:

- Ultra slim design measuring just 251 x 30 x 16mm
- AC input 200-240vac 50Hz
- Short circuit, Overload, Open Circuit and Over Temperature Protections
- Cooling by free air convection for high reliability
- 100% ageing test on full load
- 3 Year Warranty
- Compliance to worldwide lighting safety standards
- Safety to EN61347-1, EN61347-2-13
- Available in both 12vdc and 24vdc constant voltage options
- Part of the SLIM series from PowerPax also in 60W and 100W power ratings (150W slim series unit coming soon—June 2016)

Model	Voltage Output	Load	Maximum	Dimensions
LED-DR-12V-30W-SLIM	12vdc	0—30W	2.5A	251 x 30 x 16mm

This ultra slim constant voltage LED driver is manufactured and approved to lighting standards IEC61347-1 and also IEC61347-2-13. It features 4 integral protections for high levels of safety including short circuit and open circuit protection, over voltage and over temperature protection. They are suitable for use indoor use only and rated to IP20

The units are supplied with screw terminals on the input and output for fast connection. They are 100% burn in tested and feature active power factor correction . Please see full information on pages 2

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LED DRIVER TECHNICAL SPEC			
Code	LED-DR-12V-30W-SLIM		
Description	Constant Voltage Led Driver, input 200-240V AC, output 12V DC		
items	conditions	request	note
1.input			
1.1 rated input voltage	Ta	AC200-240V	
1.2 input voltage scope	Ta	AC180-264V	
1.3 input voltage frequency	Ta	50Hz/60Hz	
1.4 input current	25℃, input rated voltage, output max rated load	<0.22A	
1.5 input power	25℃, input rated voltage, output max rated load	<37W	
1.6 Efficiency	25℃, input rated voltage, output max rated load	85% (type)	
1.7 power consumption without load	25℃, input rated voltage, output without load	<0.5W	Average
1.8 power factor	25℃, input rated voltage, output max rated load	≥0.90	
1.9 input surge current	25℃, input rated voltage, output max rated load	<60A	Peak
2.output			
2.1 startup time	25℃, input rated voltage, output max rated load	< 0.5S @180Vac 50Hz	
2.2 rated output voltage and precision	Ta, input rated voltage, output rated load	12V±5%	
2.3 output voltage ripple wave	25℃, input rated voltage, output max rated load	180mV	Vp-p
2.4 output current scope	25℃, input rated voltage	0-2.5A	
3. protection			
3.1 open circuit protection	Ta, input rated voltage, output without load	-	
3.2 overload protection	Ta, input 0.94-1.06 times rated voltage, output 1.1 times rated load	yes	
3.3 short circuit protection	Ta, input 0.94-1.06 times rated voltage, output short circuit for 1 hour	yes	
3.4 over heat protection	before Tc temperature reaches 115℃	-	
3.5 automatically re-start	Ta, overload, short circuit, over heat protection retreated	yes	
4. temperature and others			
4.1 working temperature		-20℃~45℃	
4.2 Relative humidity		45%~85%	
4.3 max cover temperature		85℃	<80℃
4.4 life span	under max Ta, input rated voltage and output max rated load	30000hr	
4.5 working noise	25℃, input rated voltage, output rated load, background noise<30dB, pickup 10cm far away from product	--	
5. mechanical structure, mounting and connection way			
5.1 cover material and sizes	plastic cover, L251xW30xH16mm		
5.2 mounting mode	independent		
5.3 anti-electric shock	Class 2		
5.4 protection grade	IP20		
5.5 input connection way	H03VVH2-F 2X0.75mm ²		
5.6 output connection way	H03VVH2-F 2X0.75mm ₂		
5.7 output wires length			
6. Standard request			
6.1 safety	IEC61347-1、IEC61347-2-13		
6.2 harmonic	25℃, input rated voltage, MAX rated load	IEC61000-3-2	
6.3 EMC--interference	25℃, input rated voltage, load is typical lights	IEC55015	
6.4 EMC--ANTI interference	25℃, input rated voltage, load is lights	IEC61547	
6.5 Mark	F and MM mark		
Made by	张彦平	version	A1
Audit			
Approved			