

## LED Driver - 12vdc 100W Constant Voltage Slim



### Features:

- Ultra slim design measuring just 320.6 x 30 x 18.2mm
- 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 30W and 60W power ratings  
(150W slim series unit coming soon—June 2016)

Model	Voltage Output	Load	Maximum	Dimensions
LED-DR-12V-100W-SLIM	12vdc	0—100W	8.33A	320.6 x 30 x 18.2mm

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-100W-SLIM		
Description	constant voltage Led driver, input 200-240VAC,output 100W 12VDC		
items	conditions	request	note
<b>1.output</b>			
1.1 rated input voltage	Ta	AC200-240V	
1.2 input voltage scope	Ta	AC180-264V	
1.3 input voltage frequency	Ta	50/60Hz	
1.4 input current	25℃,input rated voltage, output max rated load	<0.7A	
1.5 input power	25℃,input rated voltage, output max rated load	< 118W	
1.6 Efficiency	25℃,input rated voltage, output max rated load	≥90%	Typical
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	<75A	Peak
<b>2.output</b>			
2.1 startup time	25℃,input rated voltage, output max rated load	<0.5S@230V 50Hz	
2.2 Max.output current	Ta,input rated voltage, output max rated load	8.33A Max	
2.3 rated output power/led lights quantity	Ta,input rated voltage	--	VF=3.6V
2.4 output current wave	25℃,input rated voltage, output max rated load	--	Ip-p
2.5 overshoot	25℃,input rated voltage,output for 2 lights connection,	--	
2.5 rated output voltage and precision	Ta,input rated voltage,output rated load	12V±5%	
2.6 output voltage wave	25℃,input rated voltage, output max rated load	<500mV	Vp-p
2.7 output open circuit voltage	Ta,input rated voltage,no load	<13V	
2.8 dimmable mode		--	
2.9 dimmable scope		--	
<b>3.protection</b>			
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 2 times of rated load	yes	
3.3 short protection	Ta,input 0.94-1.06 times rated voltage,output short circuit for 1 hour	yes	
3.4 over temperature protection	before Tc reaches 115 ℃	"--"	
3.5 automatic re-start	Ta,overload, short, over temperature protection retreat	yes	
<b>4.temperature and others</b>			
4.1 working temperature		-20℃~45℃	
4.2 working humidity		45%~85%	
4.3 max cover temperature		85℃	<90℃
4.4 products life span	max Ta,input rated voltage and output max rated load	30000hrs	
4.5 working noise	25℃,input rated voltage,output rated load,background noise<30dB, pickup is 10cm from product	<35dB	
<b>5. mechanical struture,mount and wire connection</b>			
5.1 cover material and size	plastic cover 320.6mmx30mmx18.2mm		
5.2 mounting	independent		
5.3 anti-electric shock	Class II		
5.4 protection grade	IP20		
5.5 input connection way	H03VVH2-F 2X0.75mm <sup>2</sup>		
5.6 output connection way	H05VVH2-F 2X1.0mm <sup>2</sup>		
5.7 output wires length			
<b>6. Standard request</b>			
6.1 safety	IEC61347-1、IEC61347-2-13( with lights IEC60598)		
6.2 harmonic	25℃,input rated voltage,MAX rated load	IEC61000-3-2	
6.3 EMI	25℃,input rated voltage,load is typical light	IEC55015	
6.4 EMS	25℃,input rated voltage,load is typical light	IEC61547	
6.5 Mark	F and MM mark		
<b>Made</b>		<b>version</b>	A0
<b>Inspection</b>			
<b>Approval</b>		QR-R&D-044A	