# 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** |
| **1.output** | | | |
| 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 |
| **2.output** | | | |
| 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 | | -- | |
| **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 2 timesof 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 | |
| **4.temperature and others** | | | |
| 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 | |
| **5. mechanical struture,mount and wire connection** | | | |
| 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$^2$ | | |
| 5.6 output connection way | H05VVH2-F 2X1.0mm$^2$2 | | |
| 5.7 output wires length | | | |
| **6. Standard request** | | | |
| 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 | | |
| **Made** | | **version** | A0 |
| **Inspection** | | | |
| **Approval** | | QR-R&D-044A | |

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