

LED Driver 200W IP67 series

PowerPax



Features:

Universal AC input 200-277vac (90-305vac max.)

Short circuit, overload, over voltage and over temperature protections

Built in active PFC

Cooling by free air convection for high reliability

100% ageing test on full load

Compliance to worldwide lighting safety standards

Model	Constant Voltage Output	Load	Maximum	Dimensions
LED-DR-12V-200W	12vdc	0—200W	16.7A	220.8 x 61.5 x 36.5mm
LED-DR-24V-200W	24vdc	0—200W	8.33A	220.8 x 61.5 x 36.5mm

This range of constant voltage LED drivers are manufactured and approved to lighting standards IEC61347-1 and also IEC61347-2-13. They feature 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 indoors or outdoors thanks to their IP67 rating which means they are totally dust tight and protection against immersion.

The units are supplied with 20cm input and output cables for fast connection. They are 100% burn in tested and feature active power factor correction. Please see full information on pages 2 and 3.

PowerPax Ltd accepts no responsibility for typographical errors in the production of this leaflet. Product specifications are subject to change without notice.

LED DRIVER TECHNICAL SPEC			
Code	LED-DR-12V-200W		
Description	Constant Voltage Led Driver, input 200-277V AC, output 12V DC		
items	conditions	request	note
1.input			
1.1 rated input voltage	Ta	AC200-277V	
1.2 input voltage scope	Ta	AC180-305V	
1.3 input voltage frequency	Ta	50Hz/60Hz	
1.4 input current	25°C, input rated voltage, output max rated load	<1.3A	
1.5 input power	25°C, input rated voltage, output max rated load	<230W	
1.6 Efficiency	25°C, input rated voltage, output max rated load	≥90%	
1.7 power consumption without load	25°C, input rated voltage, output without load	<0.5W	Average
1.8 power factor	25°C, input rated voltage, output max rated load	≥0.95@230V AC	
1.9 input surge current	25°C, input rated voltage, output max rated load	<100A	Peak
2.output			
2.1 startup time	25°C, input rated voltage, output max rated load	<0.5S	
2.2 constant output current and precision	Ta, input rated voltage, output rated load	16.7A	
2.3 rated output power/led lights quantity	Ta, input rated voltage	--	VF=3.6V
2.4 output current ripple wave	25°C, input rated voltage, output max rated load	--	Ip-p
2.5 overshoot	25°C, input rated voltage, output for 2 lights connection.	--	
2.6 rated output voltage and precision	Ta, input rated voltage, output rated load	12V±5%	
2.7 Max output current	Ta, max output load		
2.7 output voltage ripple wave	25°C, input rated voltage, output max rated load	<200mV	Vp-p
2.7 output open circuit voltage	Ta, input rated voltage, output without load	<14V	
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 1.3 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°C	yes	
3.5 automatically re-start	Ta, overload, short circuit, over heat protection retreated	yes	
4. temperature and others			
4.1 working temperature		-40°C~60°C	
4.2 relative humidity		45%~95%	
4.3 max cover temperature		90°C	<90°C
4.4 life span	under max Ta, input rated voltage and output max rated load	30000hr	
4.5 working noise	25°C, input rated voltage, output rated load, background noise<30dB, pickup is 10cm far away from product	<35dB	
5. mechanical structure, mounting and connection way			
5.1 cover material and sizes	Alloy,L220.8xW61.5xH36.5mm		
5.2 mounting mode	independent		
5.3 anti-electric shock	class I		
5.4 protection grade	IP67		
5.5 input connection way	3C H05RN-F 3G 0.75mm2		
5.6 output connection way	2 ways 2C SJTW 14awg		
5.7 output wires length	20cm		
6. Standard request			
6.1 safety	IEC61347-1、IEC61347-2-13(with light IEC60598)		
6.2 harmonic	25°C, input rated voltage, MAX rated load	IEC61000-3-2	
6.3 EMC--interference	25°C, input rated voltage, load is typical lights	IEC55015	
6.4 EMC--ANTI interference	25°C, input rated voltage, load is lights	IEC61547	
6.5 Mark			
Made by		version	
Audit			
Approved			

LED DRIVER TECHNICAL SPEC			
Code	LED-DR-24V-200W		
Description	Constant Voltage Led Driver, input 200-277V AC, output 24V DC		
items	conditions	request	note
1.input			
1.1 rated input voltage	Ta	AC200-277V	
1.2 input voltage scope	Ta	AC180-305V	
1.3 input voltage frequency	Ta	50Hz/60Hz	
1.4 input current	25°C, input rated voltage, output max rated load	<2.3A	
1.5 input power	25°C, input rated voltage, output max rated load	<230W	
1.6 Efficiency	25°C, input rated voltage, output max rated load	≥90%@230V AC	
1.7 power consumption without load	25°C, input rated voltage, output without load	<0.5W	Average
1.8 power factor	25°C, input rated voltage, output max rated load	≥0.95	
1.9 input surge current	25°C, input rated voltage, output max rated load	<75A	Peak
2.output			
2.1 startup time	25°C, input rated voltage, output max rated load	<0.5S	
2.2 constant output current and precision	Ta, input rated voltage, output rated load	8.33A	
2.3 rated output power/led lights quantity	Ta, input rated voltage	--	VF=3.6V
2.4 output current ripple wave	25°C, input rated voltage, output max rated load	--	Ip-p
2.5 overshoot	25°C, input rated voltage, output for 2 lights connection.	--	
2.6 rated output voltage and precision	Ta, input rated voltage, output rated load	24±1.2V	
2.7 Max output current	Ta, max output load		
2.7 output voltage ripple wave	25°C, input rated voltage, output max rated load	<300mV	Vp-p
2.7 output open circuit voltage	Ta, input rated voltage, output without load	<26V	
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 1.3 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°C	yes	
3.5 automatically re-start	Ta, overload, short circuit, over heat protection retreated	..	
4. temperature and others			
4.1 working temperature		-40°C~60°C	
4.2 relative humidity		45%~95%	
4.3 max cover temperature		90°C	<90°C
4.4 life span	under max Ta, input rated voltage and output max rated load	30000hr	
4.5 working noise	25°C, input rated voltage, output rated load, background noise<30dB, pickup is 10cm far away from product	<35dB	
5. mechanical structure, mounting and connection way			
5.1 cover material and sizes	Alloy,L220.8xW61.5xH36.5mm		
5.2 mounting mode	independent		
5.3 anti-electric shock	class I		
5.4 protection grade	IP67		
5.5 input connection way	3C H05RN-F 3G 0.75mm ²		
5.6 output connection way	2 ways 2C SJTW 14awg		
5.7 output wires length	20cm		
6. Standard request			
6.1 safety	IEC61347-1, IEC61347-2-13(with light IEC60598)		
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