

LED Driver - 50W Constant Voltage series



Features:

- Ultra compact measuring just 159 x 59 x 18mm
- 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
- EMI to EN55015
- EN61000-3-2, EN61000-3-3, EN61547
- EN62493-2010
- EN1194-2012
- Available in both 12vdc and 24vdc constant voltage options

Model	Constant Voltage Output	Load	Maximum	Dimensions
LED-DR-12V-4200-50W	12vdc	0—50W	4.2A	159 x 59 x 18mm
LED-DR-24V-2080-50	24vdc	0—50W	2.08A	159 x 59 x 18mm

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12VDC MODEL

LED DRIVER TECHNICAL SPEC			
Code			
Description	Constant Voltage Led Driver, input 200-240V AC,output 12V 50W		
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	<0.3A	
1.5 input power	25℃,input rated voltage, output max rated load	<62W	
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 current range	Ta, input rated voltage	0-4.2A	
2.4 output voltage ripple wave	25℃,input rated voltage, output max rated load	180mV	Vp-p
2.5 dimmable mode		--	
2.6 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 1.1 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	temperature detected by chips itself	--	
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℃	<85℃
4.4 life span	under max Ta,input rated voltage and output max rated load	30000hr	
4.5 working noise	25℃,input rated voltage,ouput rated load,background noise<30dB, pickup is 10cm far away from product	--	
5. mechanical structure, mounting and connection way			
5.1 cover material and sizes	plastic cover,159.9mmX57.8mmX18mm		
5.2 mounting mode	independent		
5.3 anti-electric shock	Second grade		
5.4 protection grade	IP20		
5.5 input connection way	1 way,terminal,to connectH03VVH2-F 2X0.75mm2		
5.6 output connection way	1 way,terminal,to connectH03VVH2-F 2X0.75mm2		
5.7 output wires length	2 meters max		
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			

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LED Driver - 50W Constant Voltage series

24VDC MODEL

LED DRIVER TECHNICAL SPEC			
Code			
Description	Constant Voltage Led Driver, input 200-240V AC,output 24V 50W		
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	<0.3A	
1.5 input power	25℃,input rated voltage, output max rated load	<62W	
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	24V±5%	
2.3 output current range	Ta, input rated voltage	0-2.08A	
2.4 output voltage ripple wave	25℃,input rated voltage, output max rated load	240mV	Vp-p
2.5 dimmable mode		--	
2.6 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 1.1 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	temperature detected by chips itself	--	
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℃	<85℃
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 is 10cm far away from product	--	
5. mechanical structure, mounting and connection way			
5.1 cover material and sizes	plastic cover,159.9mmX57.8mmX18mm		
5.2 mounting mode	independent		
5.3 anti-electric shock	Second grade		
5.4 protection grade	IP20		
5.5 input connection way	1 way,terminal,to connectH03VVH2-F 2X0.75mm2		
5.6 output connection way	1 way,terminal,to connectH03VVH2-F 2X0.75mm2		
5.7 output wires length	2 meters max		
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
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