

# LED DRIVER TECHNICAL SPEC

<b>Code</b>	SNP20-12VF-E		
<b>Description</b>	constant voltage Led driver, input 200-240V AC,12V output		
<b>items</b>	<b>conditions</b>	<b>request</b>	<b>note</b>
<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	50Hz/60Hz	
1.4 input current	25°C,input rated voltage, output max rated load	<0.23A	
1.5 input power	25°C,input rated voltage, output max rated load	<25W	
1.6 Efficiency	25°C,input rated voltage, output max rated load	≥85%	
1.7 power consumption without load	25°C,input rated voltage,output without load	<0.5W	Average
1.8 power factory	25°C,input rated voltage, output max rated load	≥0.50	
1.9 input surge current	25°C,input rated voltage, output max rated load	<50A	Peak
<b>2.output</b>			
2.1 time to start	25°C,input rated voltage, output max rated load	<0.5S	
2.2 constant output current and precision	Ta ,input rated voltage, output max rated load	--	
2.3 rated output power/led lights quantity	Ta ,input rated voltage	--	VF=3.6V
2.4 output current 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,	--	
2.5 rated output voltage and precision	Ta ,input rated voltage,output rated load	12V±5%	
2.6 output voltage 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	<13V	
2.8 dimmable mode		--	
2.9 dimmable scope		--	
<b>3.protection</b>			
3.1 open protection	Ta ,input rated voltage, outputwithout load	yes	
3.2 overload protection	Ta ,input 0.94-1.06 times rated voltage,output 1.1 times 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	temperature detected by IC itself	"--	
3.5 automatic re-start	Ta overload, short, over temperature protection retreated	yes	
<b>4.temperature and others</b>			
4.1 working temperature		-20°C~45°C	
4.2 Relative humidity		45%~85%	
4.3 max cover temperature		75°C	<80°C
4.4 products life span	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	
<b>5. mechanical struture,mount and wire connection way</b>			
5.1 cover material and sizes	plastic cover,103mmX35mmX16mm		
5.2 mounting ways	independent		
5.3 anti-electric shock	Class II		
5.4 protection grade	IP20		
5.5 input connection way	H03VVH2-F 2X0.75mm2		
5.6 output connection way	H03VVH2-F 2X0.75mm2		
5.7 output wires length	2m max		
<b>6. Standard request</b>			
6.1 security	IEC61347-1、IEC61347-2-13(with light IEC60598)		
6.2 harmonic	25°C,input rated voltage,MAX ated 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	F and MM mark		
<b>Made</b>		<b>version</b>	A0
<b>Inspection</b>			
<b>Approval</b>			