



## LED DRIVER

### SNP15-VF-1

Description		Constant Voltage Led Driver,input 200-240V AC			
items	conditions	12V	24V	note	
<b>1.input</b>					
1.1 rated input voltage	Ta	AC200-240V	AC200-240V		
1.2 input voltage scope	Ta	AC180-264V	AC180-264V		
1.3 input voltage frequency	Ta	50Hz	50Hz		
1.4 input current	25°C,input rated voltage, output max rated load	<0.23A	<0.23A		
1.5 input power	25°C,input rated voltage, output max rated load	<20W	<20W		
1.6 Efficiency	25°C,input rated voltage, output max rated load	≥82%	≥84%		
1.7 power consumption without load	25°C,input rated voltage,output without load	<0.5W	<0.5W	Average	
1.8 power factor	25°C,input rated voltage, output max rated load	≥0.50	≥0.50		
1.9 input surge current	25°C,input rated voltage, output max rated load	<70A	<70A	Peak	
<b>2.output</b>					
2.1 startup time	25°C,input rated voltage, output max rated load	<0.5S	<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 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,	--	--		
2.5 rated output voltage and precision	Ta ,input rated voltage,output rated load	12V±5%	24V±5%		
2.6 output voltage ripple wave	25°C,input rated voltage, output max rated load	<250mV	<150mV	Vp-p	
2.7 output open circuit voltage	Ta ,input rated voltage, output without load	<13V	<25V		
2.8 dimmable mode		--	--		
2.9 dimmable scope		--	--		
<b>3. protection</b>					
3.1 open circuit protection	25°C,input rated voltage, output without load	yes	yes		
3.2 overload protection	Ta ,input 0.94-1.06 times rated voltage,output 1.1 times rated load	yes	yes		
3.3 short circuit protection	Ta ,input 0.94-1.06 times rated voltage,output short circuit for 1 hour	yes	yes		
3.4 over heat protection	IC detected	yes	yes		
3.5 automatically re-start	Ta , overload, short circuit, over heat protection retreated	yes	yes		
<b>4. temperature and others</b>					
4.1 working temperature		-20°C~45°C	-20°C~45°C		
4.2 relative humidity		45%~85%	45%~85%		
4.3 max cover temperature		75°C	75°C	<80°C	
4.4 life span	max Ta,input rated voltage and output max rated load	30000hr	30000hr		
4.5 working noise	25°C,under the condition of input rated voltage,output rated load,background noise<30dB, pickup is 10cm away from product	"--	<35dB		
<b>5. mechanical structure, mounting and connection</b>					
5.1 cover material and size	plastic cover,L103xW35.5xH16mm				
5.2 mouting	independent				
5.3 anti-electric shock	Class II				
5.4 protection grade	IP20				
5.5 input connection	H03VVH2-F 2X0.75mm2				
5.6 output connection	H03VVH2-F 2X0.75mm2				
5.7 output wires length	2meter max				
<b>6. Standard request</b>					
6.1 safety	IEC61347-1、 IEC61347-2-13				
6.2 harmonic	25°C,input rated voltage,Max rated load	IEC61000-3-2	IEC61000-3-2		
6.3 EMI	25°C,input rated voltage,load is typical lights	IEC55015	IEC55015		
6.4 EMS	25°C,input rated voltage,load is lights	IEC61547	IEC61547		
6.5 Mark	F and MM mark				