



LED DRIVER

SNP12-VF

| Description | | Constant Voltage Led Driver, input 200-240V AC | | | |
|---|--|--|--------------|---------|--|
| items | conditions | 12V | 24V | note | |
| 1.input | | | | | |
| 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 | <0.2A | <0.2A | | |
| 1.5 input power | 25°C, input rated voltage, output max rated load | <17.5W | <17.5W | | |
| 1.6 Efficiency | 25°C, input rated voltage, output max rated load | ≥75% | ≥75% | | |
| 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 | <40A | <60A | Peak | |
| 2.output | | | | | |
| 2.1 startup time | 25°C, input rated voltage, output max rated load | <2S | <2S | | |
| 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±1.0V | | |
| 2.6 output voltage ripple wave | 25°C, input rated voltage, output max rated load | | 480mV | 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 | | -- | -- | | |
| 3. protection | | | | | |
| 3.1 open circuit protection | Ta, 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 | before Tc temperature reaches 115°C | yes | yes | | |
| 3.5 automatically re-start | Ta, overload, short circuit, over heat protection retreated | yes | yes | | |
| 4. temperature and others | | | | | |
| 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 | | 80°C | 80°C | <90°C | |
| 4.4 life span | under 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 far away from product | <35dB | | | |
| 5. mechanical structure, mounting and connection way | | | | | |
| 5.1 cover material and sizes | plastic cover,L127xW50xH10mm | | | | |
| 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 2X0.75mm ² SPT-2 18AWG wire | | | | |
| 5.6 output connection way | 1 way,terminal,to connectH03VVH2-F 2X0.75mm ² SPT-2 18AWG wire | | | | |
| 5.7 output wires length | 2meter max | | | | |
| 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 | IEC61000-3-2 | | |
| 6.3 EMC--interference | 25°C, input rated voltage, load is typical lights | IEC55015 | IEC55015 | | |
| 6.4 EMC--ANTI interference | 25°C, input rated voltage, load is lights | IEC61547 | IEC61547 | | |
| 6.5 Mark | F and MM mark | | | | |