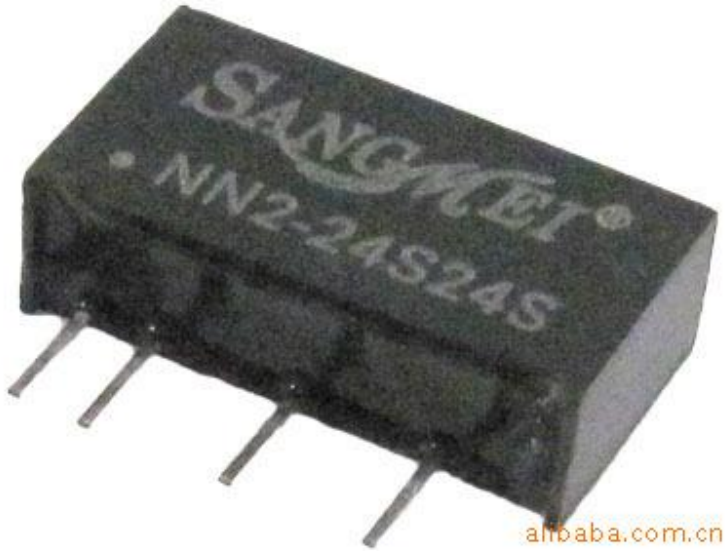


## DC-DC2W isolation module power supply NN2-24S24S (Sangmei)



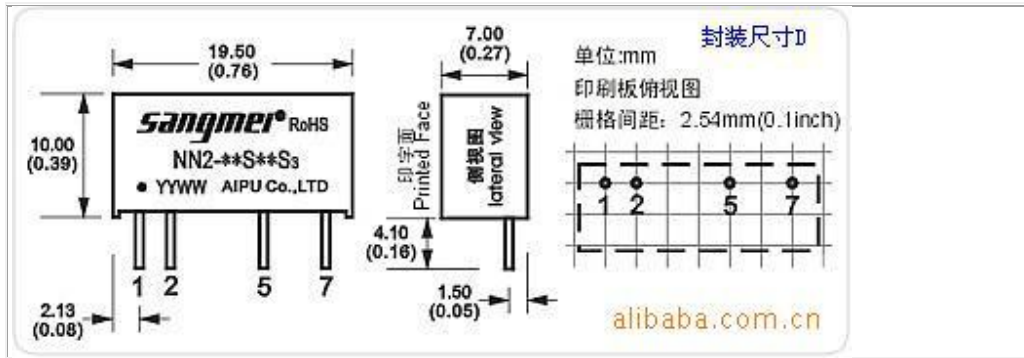
■ Typical performance ◎ Features: Constant voltage input, isolated unregulated output, 2W power Characteristics:  
Fixed Input, isolation, Unregulated Output, 2W ◎ Isolation voltage: 1000VDC / 3000VDC ◎ Efficiency: up to 80% ◎  
Working temperature: -40 °C ~ + 85 °C ◎ MTBF ≥ 3.5 million hours (3500000Hrs) ◎ In line with RoHS codes ◎  
Linear regulation (when the input voltage changes ± 1%) ± 1.2% Line regulation (once input change ± 1%) ± 1.2% ◎  
Load regulation (10% -100% full load) 15% Load regulation (10% -100% full load) 15% ◎ Ripple / Noise (20MHz  
bandwidth) < 75mVp-p Ripple and noise (20MHz Band width) <75mVp-p Typical product tabulates

| TYPE<br>型号 | Input voltage range<br>输入电压范围   | Nominal output voltage / output current |                     |                     |                           |                     |                     |
|------------|---|---|---------------------|---------------------|---------------------------|---------------------|---------------------|
|            |   | VO1                                     |                     |                     | VO2                       |                     |                     |
|            |   | 电压(V)<br>Input<br>voltage               | 最小电流<br>Min<br>(mA) | 最大电流<br>Max<br>(mA) | 电压(V)<br>Input<br>voltage | 最小电流<br>Min<br>(mA) | 最大电流<br>Max<br>(mA) |
| NN2-□S05S  | 5V (4.75~5.25VDC)<br>12V (11.4~12.6VDC)<br>24V (22.8~25.2VDC)<br>48V (45.6~50.4VDC) | 5V                                      | 40mA                | 400mA               |                           |                     |                     |
| NN2-□S09S  |   | 9V                                      | 22mA                | 220mA               |                           |                     |                     |
| NN2-□S12S  |   | 12V                                     | 16mA                | 166mA               |                           |                     |                     |
| NN2-□S15S  |   | 15V                                     | 13.6mA              | 136mA               |                           |                     |                     |
| NN2-□S24S  |   | 24V                                     | 8.4mA               | 84mA                |                           |                     |                     |
| NN2-□D05S  |   | +5V                                     | 20mA                | 200mA               | -5V                       | 20mA                | 200mA               |
| NN2-□D09S  |   | +9V                                     | 11mA                | 110mA               | -9V                       | 11mA                | 110mA               |
| NN2-□D12S  |   | +12V                                    | 8mA                 | 80mA                | -12V                      | 8mA                 | 80mA                |
| NN2-□D15S  |   | +15V                                    | 6.8mA               | 68mA                | -15V                      | 6.8mA               | 68mA                |
| NN2-□D24S  |   | +24V                                    | 4.2mA               | 42mA                | -24V                      | 4.2mA               | 42mA                |
| NN2-□S05S3 |   | 5V                                      | 40mA                | 400mA               |                           |                     |                     |
| NN2-□S09S3 |   | 9V                                      | 22mA                | 220mA               |                           |                     |                     |
| NN2-□S12S3 |   | 12V                                     | 16.6mA              | 166mA               |                           |                     |                     |
| NN2-□S15S3 |   | 15V                                     | 13.6mA              | 136mA               |                           |                     |                     |
| NN2-□S24S3 |   | 24V                                     | 8.4mA               | 84mA                |                           |                     |                     |
| NN2-□D05S3 |   | +5V                                     | 20mA                | 200mA               | -5V                       | 20mA                | 200mA               |
| NN2-□D09S3 |   | +9V                                     | 11mA                | 110mA               | -9V                       | 11mA                | 110mA               |
| NN2-□D12S3 |   | +12V                                    | 8mA                 | 80mA                | -12V                      | 8mA                 | 80mA                |
| NN2-□D15S3 |   | +15V                                    | 6.8mA               | 68mA                | -15V                      | 6.8mA               | 68mA                |
| NN2-□D24S3 |   | +24V                                    | 4.2mA               | 42mA                | -24V                      | 4.2mA               | 42mA                |
| NN2-□D05IS |   | +5V                                     | 20mA                | 200mA               | +5V                       | 20mA                | 200mA               |
| NN2-□D09IS |   | +9V                                     | 11mA                | 110mA               | +9V                       | 11mA                | 110mA               |
| NN2-□D12IS |   | +12V                                    | 8mA                 | 80mA                | +12V                      | 8mA                 | 80mA                |
| NN2-□D15IS |   | +15V                                    | 6.8mA               | 68mA                | +15V                      | 6.8mA               | 68mA                |
| NN2-□D24IS | +24V  | 4.2mA                                   | 42mA                | +24V                | 4.2mA                     | 42mA                |                     |

| Package Code                                      | L × W × H              | L × W × H              |
|---|------------------------|------------------------|
| A (single output)                                 | 19.50 × 7.00 × 10.00mm | 0.76 × 0.27 × 0.39inch |
| B (two positive and negative outputs dual output) | 19.50 × 7.00 × 10.00mm | 0.76 × 0.27 × 0.39inch |
| C (dual output isolated)                          | 19.50 × 7.00 × 10.00mm | 0.76 × 0.27 × 0.39inch |
| D (single output 3000VDC isolated)                | 19.50 × 7.00 × 10.00mm | 0.76 × 0.27 × 0.39inch |
| E (dual output 3000VDC isolated)                  | 19.50 × 7.00 × 10.00mm | 0.76 × 0.27 × 0.39inch |

■ Dimensional Drawing

| ■ Package size A: single route output (SIP)  |     |     |   |      |       |       |       |
|--|-----|-----|---|------|-------|-------|-------|
| Pin code   | 1   | 2   | 3 | 4    | 5     | 6     | 7     |
| Function   | Vin | GND |   | -Vo1 |       | + Vo1 |       |
| ▲ Note: All unit dimensions are mm, the distance between all adjacent terminals is 2.54mm, and the diameter of all terminals is 0.65mm |     |     |   |      |       |       |       |
| ▲ Note: Aaa unit is mm, all neighboring pin distance is 2.54mm, all ping diameter is 0.65mm.   |     |     |   |      |       |       |       |
| ■ Package size B: Due route Positlve and negative out SIP  |     |     |   |      |       |       |       |
| Pin code   | 1   | 2   | 3 | 4    | 5     | 6     | 7     |
| Function   | Vin | GND |   | -Vo  | COM   | + Vo  |       |
| ▲ Note: All unit dimensions are mm, the distance between all adjacent terminals is 2.54mm, and the diameter of all terminals is 0.65mm |     |     |   |      |       |       |       |
| ▲ Note: Aaa unit is mm, all neighboring pin distance is 2.54mm, all ping diameter is 0.65mm.   |     |     |   |      |       |       |       |
| ■ Package size C: Two route isolation output (Duel route isolation output) SIP   |     |     |   |      |       |       |       |
| Pin code   | 1   | 2   | 3 | 4    | 5     | 6     | 7     |
| Function   | Vin | GND |   | -Vo1 | + Vo1 | -Vo2  | + Vo2 |
| ▲ Note: All unit dimensions are mm, the distance between all adjacent terminals is 2.54mm, and the diameter of all terminals is 0.65mm |     |     |   |      |       |       |       |
| ▲ Note: Aaa unit is mm, all neighboring pin distance is 2.54mm, all ping diameter is 0.65mm.   |     |     |   |      |       |       |       |
| ■ Package size D: Single route output 3000VDC isolated (Single route output 3000VDC) SIP   |     |     |   |      |       |       |       |
| Pin code   | 1   | 2   | 3 | 4    | 5     | 6     | 7     |
| Function   | Vin | GND |   |      | -Vo   |       | + Vo  |
| ▲ Note: All unit dimensions are mm, the distance between all adjacent terminals is 2.54mm, and the diameter of all terminals is 0.65mm |     |     |   |      |       |       |       |
| ▲ Note: Aaa unit is mm, all neighboring pin distance is 2.54mm, all ping diameter is 0.65mm.   |     |     |   |      |       |       |       |



■ Package size E: Dual route Posivlve and negative out 3000VD SIP

|          |                 |     |   |   |                 |     |                 |
|----------|-----------------|-----|---|---|-----------------|-----|-----------------|
| Pin code | 1               | 2   | 3 | 4 | 5               | 6   | 7               |
| Function | V <sub>in</sub> | GND |   |   | -V <sub>o</sub> | COM | +V <sub>o</sub> |

▲ Note: All unit dimensions are mm, the distance between all adjacent terminals is 2.54mm, and the diameter of all terminals is 0.65mm

▲ Note: Aaa unit is mm, all neighboring pin distance is 2.54mm, all ping diameter is 0.65mm.

Dongguan City Dongcheng Xuanfeng Electronic Commercial Co., Ltd. acts as the "Sangmei" module power supply: DC-DC, AC-DC, DC-AC, widely used in military, communications, railway, power, medical, instrument and other industries