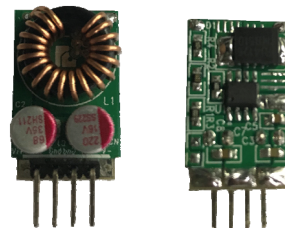




NDS24-N-12 is small size, light weight, high efficiency, low noise, easy to use open frame DC to DC power. The modules are widely used in mine exploration, metallurgy, optical control technology, medical equipment, physical and chemical experimental analysis, etc. It can be used in variety environments with 23.5V to 25V wide input range. It is versatile with vertical or horizontal installation.

**Input Volt.****24 VDC Standard****Output Volt.****-5, -12, -24 VDC**

Other specifications required, please inquire us for details.

Technical Parameters

All the parameters below are tested at TA=25° C, nominal input voltage, rated output current.

Input Parameters

Volt. Range

23.5 VDC~25 VDC

Linear speed rate

0.5% (low end- high end)

Isolation Parameters

Rated Isolation Volt.

Non-isolated

General Parameters

Switching Frequency

300 KHz, type.

Environmental Parameters

Operating Temperature

- 15° C to + 50° C, Ambient

Operating Humidity

20 ~ 90 % RH, No Condensing

Storage Temperature

-20° C to + 85 °C, Ambient

Vibration

2G, 10~500Hz, 3 axes

Over Temperature Protection

Recovers automatically after fault condition is removed

Short Protection

Autorecovery

Overload Protection

Recovers automatically after fault condition is removed

Dimension

DIP Package size

NDS24-N-12: 25.7 x 16 x 11.65 mm PCB thickness: 1.6 mm

Typical Product List:

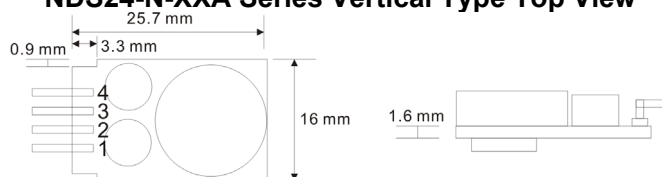
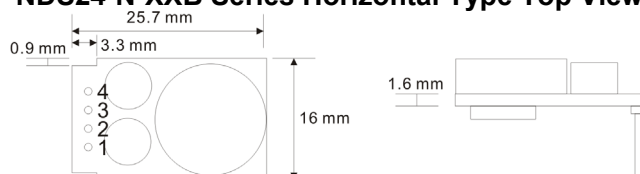
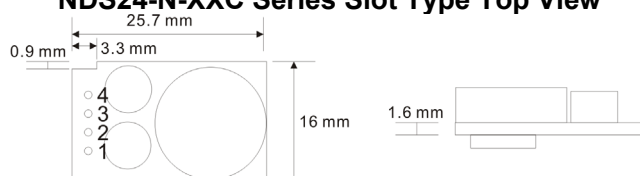
Model	Input Voltage	Output Voltage	Output Current (Convection)	Ripple & Noise	Regulator Rate	Efficiency Full load
NDS24-N-05	24V	-5V	1000mA	50mV	1%	85% Ref.
NDS24-N-12	24V	-12V	650mA	50mV	1%	91% Ref.
NDS24-N-24	24V	-24V	400mA	50mV	1%	92% Ref.

CE Standards

EN 55032, EN 55011, EN 61000-6-3.

Safety Standards

CE Marking

**External Dimension and PIN Definition****NDS24-N-XXA Series Vertical Type Top View****NDS24-N-XXB Series Horizontal Type Top View****NDS24-N-XXC Series Slot Type Top View**

Pin	Function	
1	V-	Output -
2	GND	Output - Line
3	GND	Input + Line
4	Vi+	Input +

備註 :

1. Vertical type part number is NDS24-N-12A; Horizontal type part number is NDS24-N-12B.
2. Each output can provide up to maximum load, but total load can not exceed rated output power.
3. Line regulation is measured from low line to high line at rated load.
4. Load regulation is measured from 20% to 100% of rated load at 24VDC input.
5. Ripple & Noise are measured with 20MHz oscilloscope at 24VDC by using a 20cm long 12" twisted pair-wire with a 0.1uF/630V metal capacitor & a 47uF electrolytic capacitor parallel on the test point.
6. Efficiency is measured at rated load and 24VDC input.
7. Minimum DC input Cap 330uF is required.
8. Reign Power reserve the right to change specifications at any time without notice.