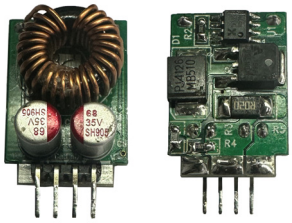
DC → DC Open Frame Power

NDS30 SERIES

NDS30 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 12V to 28V wide input range. It is versatile with vertical or horizontal installation.



Input Volt.

12, 24 VDC Standard

Output Volt.

24, 48 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	12 VDC~28 VDC
Linear speed rate	0.5% (low end- high end)

Isolation Parameters

Rated Isolation Volt.	Non-isolated

General Parameters

Switching Frequency	150 KHz, type.

Environmental Parameters

Operating Temperature	- 15° C to + 50° C, Ambiemt
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
Overload Protection	Recovers automatically after fault condition is removed

Dimension

DIP Package size	NDS30: 25.7 x 18 x 11.65 mm PCB thickness: 1.6 mm

Typical Product List:

Model	Input Voltage	Output Voltage	Output Current (Convection)	Peak Current (3 seconds)	Output Current (Fan Cooled)	Ripple & Noise	Regulator Rate	Efficiency Full load
NDS30-24	12~18V	24V	1.25A	3.125A	2.1A	100mV	2.5%	92% Ref.
NDS30-48	24~28V	48V	0.625A	1.5625A	1.05A	100mV	2.5%	92% Ref.

CE Standards

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

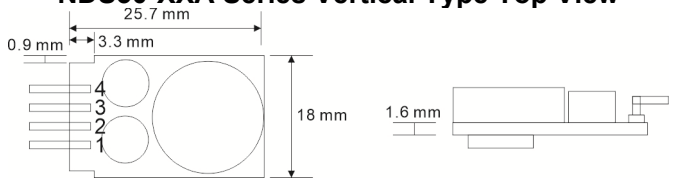
Safety Standards

CE Marking

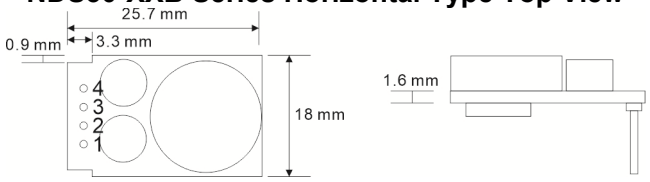
WEB : http://www.switching-powers.com
E-mail : rp21003f@ms7.hinet.net
Tel : 886-2-22997550
Fax : 886-2-22997596

External Dimension and PIN Definition

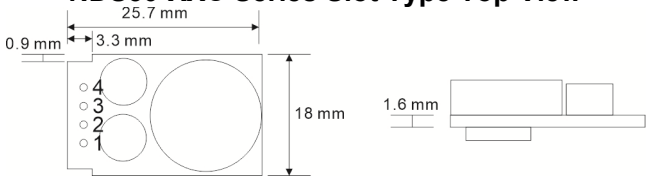
NDS30-XXA Series Vertical Type Top View



NDS30-XXB Series Horizontal Type Top View



NDS30-XXC Series Slot Type Top View



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

備註：

1. Vertical type part number is NDS30A; Horizontal type part number is NDS30B.
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 12-24VDC input.
5. Ripple & Noise are measured with 20MHz oscilloscope at 12-24VDC 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 12-24VDC input.
7. Minimum DC input Cap 330uF is required.
8. Reign Power reserve the right to change specifications at any time without notice.