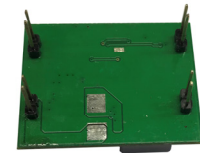
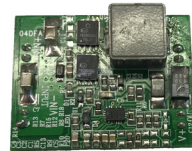




NDS48 is small size, light weight, high efficiency, low noise, easy to use open frame DC to DC power. The modules are widely used in mine exploration, metallurgy, optical control technology, medical equipment, physical and chemical experimental analysis, etc. It can be used in variety environments with 18V to 52V wide input range.

**Input Volt.**

12, 24, 36, 48 VDC Standard

Output Volt.

3.3 ~ 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 18 VDC~52 VDC
 Linear speed rate 0.5% (low end- high end)

Isolation Parameters

Rated Isolation Volt. Non-isolated

General Parameters

Switching Frequency 126 KHz, type.

Overload Protection

Recovers automatically after fault condition is removed.

Over Voltage Protection

Shut down o/p voltage, re-power on to recover.

Short protection

Autorecovery.

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

Dimension

DIP Package size NDS48: 40.0 x 31.5 x 10.0 mm

Typical Product List:

Model	Input Voltage	Output Voltage	Output Current	Output Current Max. (Peak)	Ripple & Noise	Regulator Rate	Efficiency Full load	O.V.P
NDS48-05	18~52V	5V	6A	7A	100mV	2%	24Vin 92% Ref. 48Vin 90% Ref.	6.4~7.3V
NDS48-12	18~52V	12V	4A	5A	120mV	2%	24Vin 94% Ref. 48Vin 92% Ref.	14.8~17.6V
NDS48-15	18~52V	15V	3.2A	4A	150mV	2%	24Vin 95% Ref. 48Vin 93% Ref.	17.6~21V
NDS48-24	28~52V	24V	2.5A	3A	200mV	2%	48Vin 95% Ref.	26~31V



CE Standards

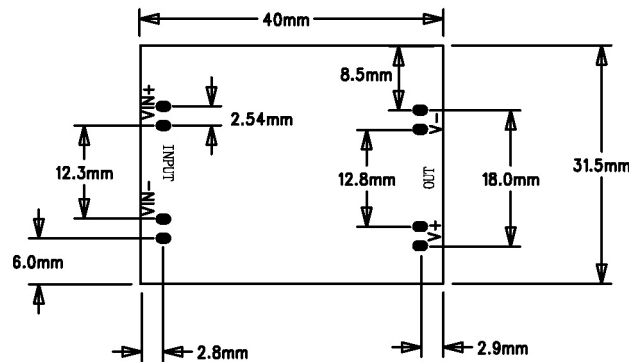
EN 55032:2015, EN 55011:2009:2009+A1:2011, EN 61000-6-3:2007+A1:2011.

Safety Standards



CE Marking

External Dimension and PIN Definition



Function	
VIN+	Input +
VIN-	Input -
V-	Output -
V+	Output +

備註 :

1. Each output can provide up to maximum load, but total load can not exceed rated output power.
2. Line regulation is measured from low line to high line at rated load.
3. Load regulation is measured from 20% to 100% of rated load at 12VDC input.
4. Ripple & Noise are measured with 20MHz oscilloscope at 12VDC 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.
5. Efficiency is measured at rated load and 12VDC input.
6. Minimum DC input Cap 47uF is required.
7. Reign Power reserve the right to change specifications at any time without notice.