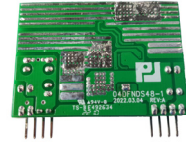




NDS48 is small size, light weight, high efficiency, low noise, easy to use open frame DC to DC power. The modules are widely used in mine exploration, metallurgy, optical control technology, medical equipment, physical and chemical experimental analysis, etc. It can be used in variety environments with 18V to 60V wide input range.

**Input Volt.****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~60 VDC  
 Linear speed rate 0.5% (low end- high end)

**Isolation Parameters**

Rated Isolation Volt. Non-isolated

**General Parameters**

Switching Frequency 140 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: 50.0 x 36.6 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	NOTE
NDS48-05-4A	18-60V	5V	4A	3A (3 sec)	100mV	2%	85% Ref.	6.4~7.3V	Convection cooled
NDS48-05-8A	18-60V	5V	8A	8A	100mV	2%	82% Ref.	6.4~7.3V	Fan cooled
NDS48-12-3.5A	18-60V	12V	3.5A	3A (3 sec)	120mV	2%	92.5% Ref.	14.8~17.6V	Convection cooled
NDS48-12-8A	18-60V	12V	8A	8A	120mV	2%	90.5% Ref.	14.8~17.6V	Fan cooled
NDS48-24-3.5A/6.5A	18-60V	24V	3.5A/6.5A	3A (3 sec) /7.5A	200mV	2%	3.5A: 96.5% Ref. 6.5A: 96.3% Ref.	26~31V	3.5A: Convection cooled 6.5A: Fan cooled



**CE Standards**

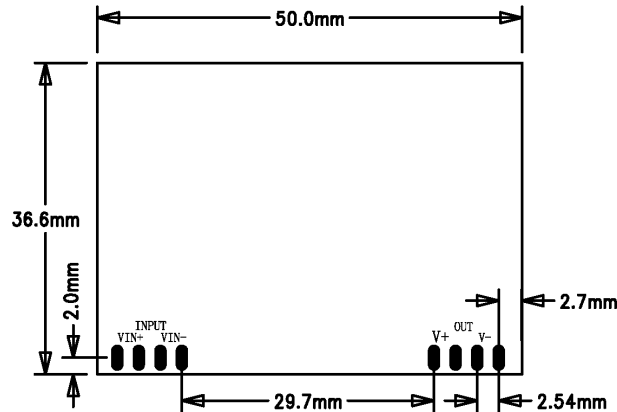
EN 55032, EN 55011, EN 61000-6-3.

**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 48VDC input.
4. Ripple & Noise are measured with 20MHz oscilloscope at 48VDC 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 48VDC input.
6. Reign Power reserve the right to change specifications at any time without notice.