



RDD series is small size, light weight, high efficiency, low noise, easy to use din rail / standard mount dual installation DC to DC power. It is widely used in mine exploration, metallurgy, optical control technology, medical equipment, industrial equipments, industrial control type customers, etc. It is freely to be use with other type of power supply, which converts original single output power to multiple outputs. Lower cost, solve stock problems, convenience to use, versatile usage.

**Output Volt.****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**

Linear speed rate 0.5% (low end- high end)

**Isolation Parameters**

Rated Isolation Volt. Non-isolated

**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

**Detail Specification of internal module**

Optional combining use with single module or dual module.

(Note: Max14.5VDC input voltage for NDS12 series combination use)

**Typical Product List:**

| Model     | Input Voltage | Output Voltage | Output Current<br>(Convection) | Output Current Max.<br>(Fan Cooling) | Ripple & Noise | Regulator Rate | Efficiency Full load | O.V.P      |
|-----------|---------------|----------------|--------------------------------|--------------------------------------|----------------|----------------|----------------------|------------|
| NDS12-3.3 | 10.5~14.5V    | 3.3V           | 7A                             | 20A                                  | 10mV           | 1%             | 88% Ref.             | 4~4.2V     |
| NDS12-05  | 10.5~14.5V    | 5V             | 7A                             | 20A                                  | 10mV           | 1%             | 89% Ref.             | 6~6.3V     |
| NDS24-3.3 | 8~32V         | 3.3V           | 3A                             | 3A                                   | 10mV           | 1%             | 84% Ref.             | 4~4.5V     |
| NDS24-05  | 8~32V         | 5V             | 3A                             | 3A                                   | 10mV           | 1%             | 88% Ref.             | 5.6~6.2V   |
| NDS24-12  | 15~32V        | 12V            | 2.5A                           | 3A                                   | 80mV           | 1%             | 93% Ref.             | 15~18V     |
| NDS115-05 | 15~115V       | 5V             | 1.3A                           | 1.3A                                 | 30mV           | 1%             | 88% Ref.             | 6~6.3V     |
| NDS115-12 | 18~115V       | 12V            | 1.2A                           | 1.2A                                 | 30mV           | 1%             | 88% Ref.             | 15~18V     |
| NDS115-24 | 30~115V       | 24V            | 1A                             | 1A                                   | 30mV           | 1%             | 93.5% Ref.           | 31.4~34.7V |

**CE Standards**

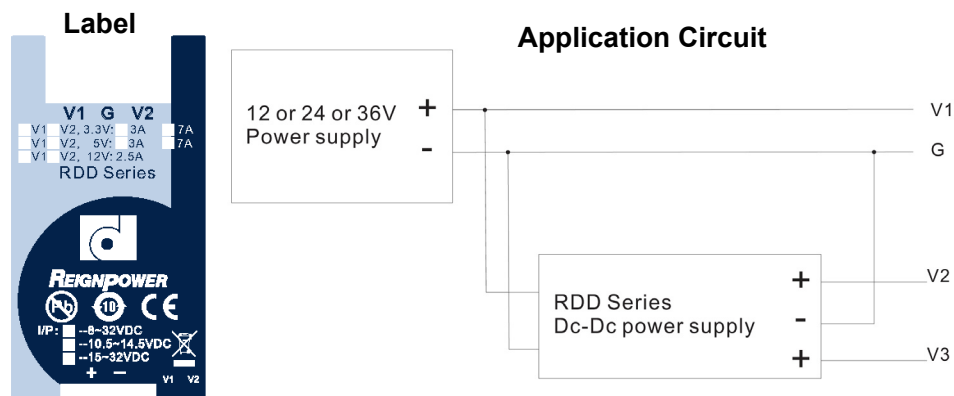
EN 55032, EN 55011, EN 61000-6-3.

**Safety Standards**

CE Marking



**Label and Application Circuit**

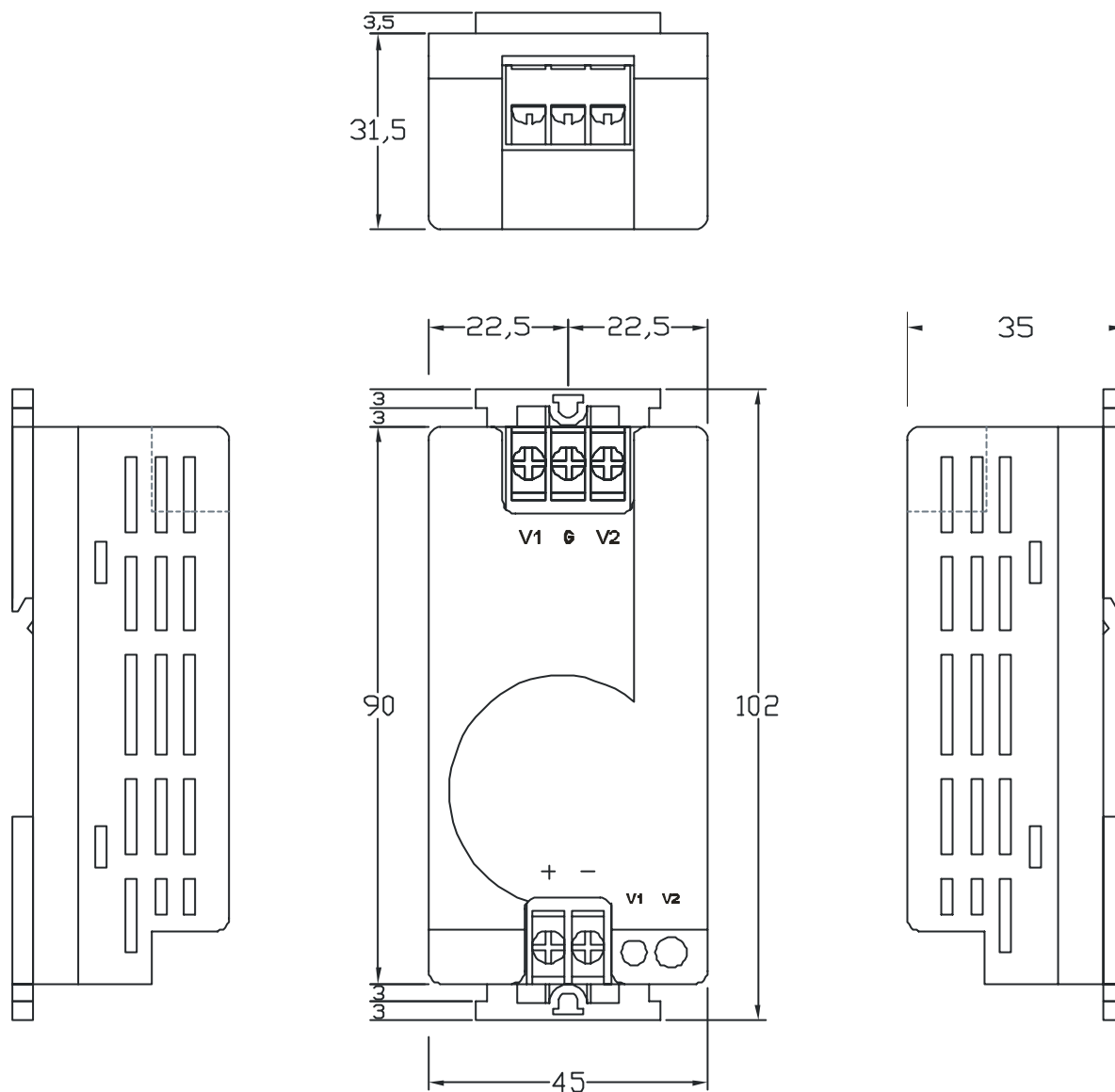


**NOTE :**

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. Reign Power reserve the right to change specifications at any time without notice.



**Mechanical Details**



CASE NO. : CS025D

UNIT : mm

DIMENSION : 102(H)\*35(D)\*45(W)

MATERIAL : PLASTIC

COLOR : GRAY

| Symbol | Description                    |
|--------|--------------------------------|
| V1     | DC V1 Positive Output Terminal |
| V2     | DC V2 Positive Output Terminal |
| G      | DC Output Grounding Terminal   |
| +      | DC Negative Input Terminal     |
| -      | DC Positive Input Terminal     |