

# Switch Mode power supply



## Type DRA

Compact economical single-phase industrial power supply for electronics requiring stabilised DC voltage. Designed and tested according to norm EN60950 and approved by UL. Standard models with universal input voltage (90-265V) and adjustable DC output voltage (typical -10% and +15%). Short circuit proof and protected against overload.

Fixed installation, easy snap-on assembly on 35mm DIN-rail. DRA 120 models have PFC.

The switch mode technology provide compact design, high efficiency and low residual ripple (less than +/-0.5%). Shock- and vibration tested. Cased in plastic IP20.

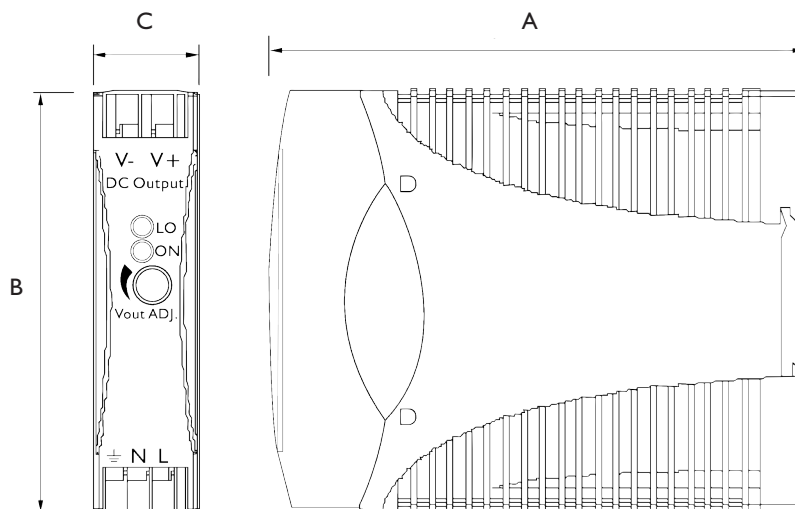
### Application:

The DRA models are especially designed for industrial control systems, process automatic and industrial applications requiring stabilised DC voltage.

## Technical specifications

- Input voltage: 90~265 VAC  
(115/230 VAC)
- Frequency: 47-63Hz
- Output voltage: 5, 12, 15, 24, 48 VDC
- Max Ripple: 0,5% RMS
- According to: EN60950, UL508, UL1310  
(list.), EN50081-I, EN50082-I
- Test/insulating voltage: 3,0 kV AC RMS
- Construction class: II
- Insulation class: B
- Ambient temp. ( $t_a$ ): 50°C
- Degree of protection: IP20

## Dimensions



| Type          | Voltage Pri. (VAC) | Voltage Sec. (VDC) | Current (A) | Power (W) | Dimensions AxBxC (mm) | Weight (g) | Art. no.     |
|---------------|--------------------|--------------------|-------------|-----------|-----------------------|------------|--------------|
| <b>5 VDC</b>  |                    |                    |             |           |                       |            |              |
| DRA05-05      | 90-265             | 5                  | 1,0         | 5         | 115x90x23             | 115        | 3-097-000001 |
| DRA10-05      | 90-265             | 5                  | 2,0         | 10        | 115x90x23             | 120        | 3-097-000005 |
| DRA18-05      | 90-265             | 5                  | 3,0         | 18        | 115x90x23             | 150        | 3-097-000009 |
| DRAN30-05     | 90-265             | 5                  | 6,0         | 30        | 115x90x40             | 290        | 3-097-000013 |
| DRAN60-05A    | 90-265             | 5                  | 10          | 60        | 115x90x40             | 360        | 3-097-000017 |
| <b>12 VDC</b> |                    |                    |             |           |                       |            |              |
| DRA05-12      | 90-265             | 12                 | 0,42        | 5         | 115x90x23             | 115        | 3-097-000002 |
| DRA10-12      | 90-265             | 12                 | 0,84        | 10        | 115x90x23             | 120        | 3-097-000006 |
| DRA18-12      | 90-265             | 12                 | 1,5         | 18        | 115x90x23             | 150        | 3-097-000010 |
| DRAN30-12     | 90-265             | 12                 | 2,5         | 30        | 115x90x40             | 290        | 3-097-000014 |
| DRAN60-12     | 90-265             | 12                 | 5,0         | 60        | 115x90x40             | 360        | 3-097-000018 |
| DRANI20-12A   | 115/230            | 12                 | 10          | 120       | 116x124x64            | 860        | 3-097-000032 |
| <b>15 VDC</b> |                    |                    |             |           |                       |            |              |
| DRA05-15      | 90-265             | 15                 | 0,34        | 5         | 115x90x23             | 115        | 3-097-000003 |
| DRA10-15      | 90-265             | 15                 | 0,67        | 10        | 115x90x23             | 120        | 3-097-000007 |
| DRA18-15      | 90-265             | 15                 | 1,2         | 18        | 115x90x23             | 150        | 3-097-000011 |
| <b>24 VDC</b> |                    |                    |             |           |                       |            |              |
| DRA05-24      | 90-265             | 24                 | 0,21        | 5         | 115x90x23             | 115        | 3-097-000004 |
| DRA10-24      | 90-265             | 24                 | 0,42        | 10        | 115x90x23             | 120        | 3-097-000008 |
| DRA18-24      | 90-265             | 24                 | 0,75        | 18        | 115x90x23             | 150        | 3-097-000012 |
| DRAN30-24     | 90-265             | 24                 | 1,25        | 30        | 115x90x40             | 290        | 3-097-000015 |
| DRAN60-24     | 90-265             | 24                 | 2,5         | 60        | 115x90x40             | 360        | 3-097-000019 |
| DRA100-24A    | 90-265             | 24                 | 4,2         | 100       | 114x90x54             | 430        | 3-097-000035 |
| DRANI20-24A   | 115/230            | 24                 | 5,0         | 120       | 116x124x66            | 860        | 3-097-000030 |
| DRA240-24A    | 115/230            | 24                 | 10          | 240       | 116x125x83            | 1000       | 3-097-000024 |
| DRA300-24A    | 115/230            | 24                 | 12,5        | 300       | 124x125x84            | 1400       | 3-097-000036 |
| DRA480-24A    | 90-265             | 24                 | 20          | 480       | 116x125x175           | 1920       | 3-097-000027 |
| <b>48 VDC</b> |                    |                    |             |           |                       |            |              |
| DRAN30-48     | 90-265             | 48                 | 0,625       | 30        | 115x90x40             | 290        | 3-097-000016 |
| DRAN60-48     | 90-265             | 48                 | 1,25        | 60        | 115x90x40             | 360        | 3-097-000020 |
| DRANI20-48FPA | 115/230            | 48                 | 2,5         | 120       | 116x124x64            | 860        | 3-097-000034 |
| DRA240-48A    | 115/230            | 48                 | 5,0         | 240       | 116x125x83            | 1000       | 3-097-000025 |
| DRA480-48A    | 90-265             | 48                 | 10          | 480       | 116x125x175           | 1920       | 3-097-000028 |