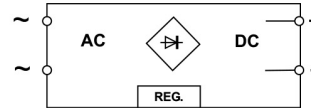
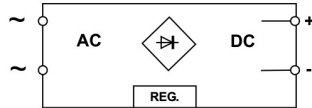


- Powered by a 12-24 Vac secondary transformer
- Short circuit, overload and input overvoltage protection
- Over temperature protection
- Adjustable output voltage



NOTE
Please refer to the datasheet for more details

APPLICATIONS

Cabur CL-R series power supplies are linear stabilised with adjustable output, capable of satisfying all small load power needs with non-standard voltages at an extremely affordable cost.

They can be rail mounted in any position as long as sufficient space is left for the free circulation of air for cooling, while model CL1R has a degree of protection IP00, meaning it is to be used inside a protected container.

Even where the power supply is protected against overcurrents, it is advised to follow the nominal data indicated in the tables below.

(1) **CL1R** and **CL5R** provide the nominal performances if combined with the secondary voltages indicated in **Tab. 1**; with a secondary voltage of 24...27 Vac, the maximum obtainable current at output voltages adjusted to values below 24 Vdc is indicated in **Tab. 2**; to stabilise the output voltage and reduce ripple at full load, linear power supplies must be powered with an input voltage that exceeds the output voltage, whereas if they are powered at 24 Vac, with an output adjusted to 24 Vdc and maximum current absorption, the ripple increases and the stability of the output voltage to load variations and $\pm 10\%$ network variations drops; voltages above 27 Vac cause significant heating, triggering the thermal protection and reducing the current supplied.

Products are supplied with a default voltage of 24 Vdc at the output and 26 Vac at the input.

| CODE TYPE | CL1R | XCL1R | CL5R | XCL5R |
|---|--|-------|--|-------|
| INPUT TECHNICAL DATA | | | | |
| Input rated voltage | 12-24 Vac | | 12-24 Vac | |
| Input voltage AC | 10...26 Vac (see Table 1) | | 10...26 Vac (see Table 1) | |
| Input voltage DC | — | | — | |
| Frequency | 47...63 Hz | | 47...63 Hz | |
| Current consumption | 2.5 A [24 Vac] | | 6 A [24 Vac] | |
| Inrush peak current | — | | — | |
| Power factor | — | | — | |
| Internal protection fuse | T 3 A | | T 10 A | |
| External protection on AC line | MCB: C-4 A / Fuse: T-4 A | | MCB: C-10 A / Fuse: T-10 A | |
| OUTPUT TECHNICAL DATA | | | | |
| Output rated voltage | 1.2...24 Vdc | | 1.2...24 Vdc | |
| Output adjustable range | (see Table 1 and Table 2) | | (see Table 1 and Table 2) | |
| Continuous current | 0.3...1.5 A (see Table 2) | | 0.8...5 A (see Table 2) | |
| Overload limiting | — | | — | |
| Short circuit peak current | — | | — | |
| Ripple \square nominal ratings | < 50 mVpp at 24 Vac | | < 50 mVpp at 24 Vac | |
| Hold up time | >20 ms | | >20 ms | |
| Status indication | Green LED "DC OK" | | Green LED "DC OK" | |
| Alarm contact | — | | — | |
| Parallel connection | — | | — | |
| Redundant parallel connection | — | | — | |
| GENERAL TECHNICAL DATA | | | | |
| Efficiency | — | | — | |
| Dissipated power | — | | — | |
| Operating temperature range | -20...+45°C | | -20...+45°C | |
| Input / output isolation | not insulated | | not insulated | |
| Input / ground isolation | 0.5 kVac / 60 s | | 0.5 kVac / 60 s | |
| Output / ground isolation | 0.5 kVac / 60 s | | 0.5 kVac / 60 s | |
| Standard / approvals | — | | — | |
| EMC Standards | — | | — | |
| Overvoltage category / Pollution degree | II / 2 | | II / 2 | |
| Protection degree | IP 00 | | IP 00 | |
| Connection terminal IN/OUT | 2.5 mm ² / 2.5 mm ² | | 2.5 mm ² / 2.5 mm ² | |
| Housing material | UL94V-0 plastic material | | aluminium | |
| Dimension | 43x74x130 | | 37x115x118 | |
| Approximate weight | 120 g | | 350 g | |
| Mounting information | vertical on a rail, 20 mm from adjacent components | | vertical on a rail, 20 mm from adjacent components | |
| APPROVALS | CE | | CE | |
| ACCESSORIES | | | | |
| Mounting rail (IEC60715/TH35-7.5) | PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB | | PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB | |

| INPUT (Vac) | Uout max (Vdc) | Iout max (A) XCL1R | Iout max (A) XCL5R |
|-------------|----------------|--------------------|--------------------|
| 24...27 | 24 | 1.5 | 5 |
| 16...18 | 15 | 1.5 | 5 |
| 14...16 | 12 | 1.5 | 5 |
| 12...14 | 10 | 1.5 | 5 |
| 12 | 9 | 1.5 | 5 |
| 9 | 5 | 1.5 | 5 |

Table 1 (see explanation to the side)

| INPUT (Vac) | Uout max (Vdc) | Iout max (A) XCL1R | Iout max (A) XCL5R |
|-------------|----------------|--------------------|--------------------|
| 24 | 24 | 1.5 | 5 |
| 24 | 15 | 0.8 | 2.5 |
| 24 | 12 | 0.7 | 2 |
| 24 | 10 | 0.5 | 1.5 |
| 24 | 9 | 0.45 | 1.3 |
| 24 | 5 | 0.3 | 0.8 |

Table 2 (see side explanation)