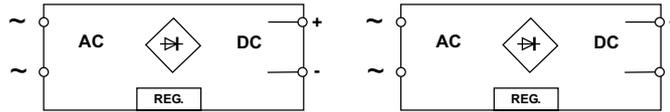


- Powered by a 12-24 Vac secondary transformer
- Short circuit, overload and input overvoltage protection
- Over temperature protection
- Adjustable output voltage



**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	XCL1R	XCL5R
<b>TYPE</b>	<b>CL1R</b>	<b>CL5R</b>
<b>INPUT TECHNICAL DATA</b>		
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
<b>OUTPUT TECHNICAL DATA</b>		
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 @ 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	—	—
<b>GENERAL TECHNICAL DATA</b>		
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 <sup>2</sup> / 2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup> / 2.5 mm <sup>2</sup>
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
<b>APPROVALS</b>	<b>CE</b>	<b>CE</b>
<b>ACCESSORIES</b>		
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
Mounting rail (IEC60715/TH35-15)	—	—
Marking tag	—	—

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)