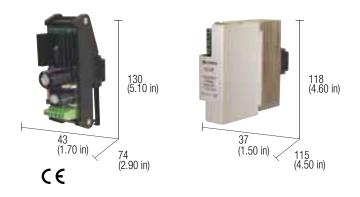
Adjustable linear power supply input 24 Vac

- Adjustable output voltage 1.2...24 Vdc
- Output current 1.5 and 5 A
- Short circuit, overload, over temperature protection



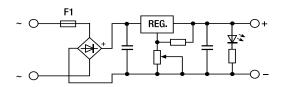


NOTES

The depth dimension includes the terminal blocks and the DIN

(1) See "Applications"

BLOCK DIAGRAM



VERSIONS	Cod. XCL1R	Cod. XCL5R	
Output 1.2 A	CL1R		
Output 5 A		CL5R	
INPUT TECHNICAL DATA			
Input rated voltage	926 Vac	(see Tab. 1)	
Frequency	50(60 Hz	
Current @ lout max.	2,5 A	6 A	
Internal protection fuse	T 3 A replaceable	T 10 A replaceable	
External protection on AC line	MCB: 4 A C characteristic - fuse T 4 A	MCB: 10 A C characteristic - fusibilie T 10 A	
OUTPUT TECHNICAL DATA			
Output rated voltage	1.224 Vdc	1.224 Vdc	
Output adjustable range	(see Tab. 1 and Tab. 2)	(see Tab. 1 and Tab. 2)	
Continuous current	0.31.5 A (see Tab. 2)	0.85 A (see Tab. 2)	
Overload limit	_	_	
Load regulation	< 1%		
Ripple @ nominal ratings	< 50 mVpp @ 24 Vac		
Hold up time @ In	>20 ms		
Overload / short circuit protections	constant current, limit current, auto reset / over temperature protection		
Status display	"DC OK" green LED		
GENERAL TECHNICAL DATA			
Operating temperature range	-20+45°C / over temperature protection (1)		
Input/output isolation	not insulated		
Input/ground isolation	0.5 KVac / 60 s		
Output/ground isolation	0.5 KVac / 60 s		
Reference Standards	IEC 664-1, DIN VDE		
EMC Standards	EN50081-1, EN61000-6-4		
MTBF @ 25°C @ nominal ratings	>500'000 h acc. to SN 29500 / >150'000 h acc. to MIL Std. HDBK 217F		
Overvoltage category/Pollution degree	II / 2		
Protection degree	IP 00 IEC 529, EN60529		
Connection terminal	2.5 mm ² fixed screw type		
Housing material	UL94V-0 plastic material	aluminium	
Approx. weight	120 g (4.23 oz) 350 g (12.35 oz)		
Mounting information	vertical on rail, allow 20 mm spacing between adjacent components		
MOUNTING ACCESSORIES			

Mounting rail type according to IEC60715/TH35-7.5 Mounting rail type according to IEC60715/G32

PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB PR/DIN/AC, PR/DIN/AS, PR/DIN/AL

INPUT (Vac)	Uout max. (Vdc)	lout max (A) XCL1R	lout max (A) XCL5R
2427	24	1.5	5
1618	15	1.5	5
1416	12	1.5	5
1214	10	1.5	5
12	9	1.5	5
9	5	1.5	5

Tab 1	(000	explanation	οn	right	cido)
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INPUT (Vac)	Uout max. (Vdc)	lout max (A) XCL1R	lout 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

APPLICATIONS

The CL-R linear reguated power supply series of CABUR is provided with adjustable output and it can satisfy all those needs related to the feeding of small loads with non-standard rated voltage and at an extremely limited cost. It can be mounted on the rail in whatever position, providing that enough space for the free circulation of the air remains for the cooling; the CL1R model having an IP 00 protection degree, its use is intended inside a protected enclosure. Even if the power supply is protected from over-current it is advisable to respect the rated values shown in table 1 and 2.

(1) CL1R and CL5R give the rated performances if fed by a voltage between 24 and 27 Vac, as indicated on Tab. 1; with input voltage between 24 and 27 Vac, the maximum output current for output voltages lower than 24 Vdc are indicted on Tab. 2; to achieve a good voltage stabilization and low ripple, linear power supplies must be fed with an input voltage higher than output voltage, while if they are supplied with 24 Vac, and adjusted for 24 Vdc output, when rated current is supplied, the ripple increases and voltage stabilization decreases; input voltages higher than 27 Vac increases power dissipation and increases operating temperature of the component, and might cause thermal protection shut down. The products are preadjusted to

Vout 24 Vdc with Vin 26 Vac.

Tab. 2 (see explanation on right side)