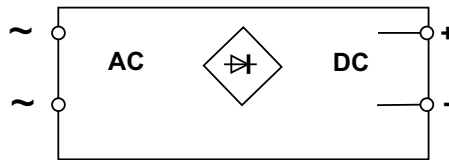


- Powered by a 12-24 Vac secondary transformer
- Rail mountable



NOTE

Please refer to the datasheet for more details
Output not protected against overcurrent and short circuit, an external fuse must be installed.



APPLICATIONS

The rectified and filtered power supply comprises a transformer which isolates and reduces the secondary voltage from the network voltage (not supplied), a bridge rectifier and a filter capacity that convert alternating voltage into direct voltage at an SELV value of less than 60 Vdc.

The power supply is not stabilised, therefore the output voltage varies according to the power consumed by the load and to network voltage fluctuations of $\pm 10\%$. The formulae described in the output technical data are used to calculate voltage at no load, 50% load and full load and to select the transformer best suited to your needs. **These power supplies are a reliable and affordable source for powering relays, contactors, solenoid valves and loads capable of operating smoothly with a relatively high (5%) alternating waste on 24 Vdc (ripple) and strong changes in output voltage, whereas in applications in which the network is highly unstable and prone to voltage dips, they may not be suitable for powering devices with microprocessors and memories, analogue converters or devices that require a highly stable power supply voltage.**

CODE	XAR6
TYPE	AR6
INPUT TECHNICAL DATA	
Input rated voltage	12-24 Vac
Input voltage AC	6...20 Vac
Input voltage DC	—
Frequency	47...63 Hz
Current consumption	7.2 A (24 Vac)
Inrush peak current	—
Power factor	—
Internal protection fuse	T 8 A
External protection on AC line	MCB: C-10 A / Fuse: T-10 A
OUTPUT TECHNICAL DATA	
Output rated voltage	$U_{out} = (U_{in} \times 1.41) - 2 \text{ V}$ (full load, see Tab. 1)
Output adjustable range	—
Continuous current	6 A at 20°C
Overload limiting	External fuse must be installed
Short circuit peak current	—
Ripple @ nominal ratings	2.5 Vpp
Hold up time	>20 ms
Status indication	Green LED "DC OK"
Alarm contact	—
Parallel connection	—
Redundant parallel connection	—
GENERAL TECHNICAL DATA	
Efficiency	—
Dissipated power	—
Operating temperature range	-20...+45°C
Input / output isolation	not insulated
Input / ground isolation	0.5 kVac / 60 s
Output / ground isolation	0.5 kVac / 60 s
Standard / approvals	—
EMC Standards	—
Overvoltage category / Pollution degree	II / 2
Protection degree	—
Connection terminal IN/OUT	2.5 mm ² / 2.5 mm ²
Housing material	UL94V-0 plastic material
Dimension	70x80x93
Approximate weight	140 g
Mounting information	vertical on a rail, 20 mm from adjacent components
APPROVALS	
ACCESSORIES	
Mounting rail (IEC60715/TH35-7.5)	PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB
Mounting rail (IEC60715/TH35-15)	—
Marking tag	—

Tab. 1 Input/Output behaviour

INPUT (Vac)	OUTPUT without load (Vdc)	OUTPUT full load (Vdc)
20	28.7	24.2
18	25.4	21.4
15	21.2	17.2
12	17	15
9	12.7	8.7
6	8.5	4.5