GENERAL CATALOGUE

Electronic Products





GENERAL NOTES

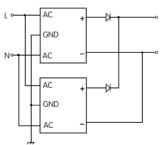
LENGTH OF CONDUCTOR PEELING: 9 mm, model with fixed terminals; 6 mm, model with pluggable terminals.

COOLING: distance the power supply units 2 cm from adjacent equipment and at least 5 cm from other equipment on the upper and lower sides. At a room temperature >45°C and constant supply at 100%, reduce the current supplied by calculating: -0 ...A for °C over 45°C. The item of data -0 ...A is given for each model in the specifications. Max. room temperature 60°C with constant current supplied, reduced as indicated. We recommend to assemble with vertical dissipators (guide in horizontal position).

NOTES FOR CS SERIES SWITCHING POWER SUPPLY UNITS WITH 90-264 Vac / 110 -220 Vdc SINGLE-PHASE INPUT

ASSEMBLY: the power supply units are equipped with an EN 50.022 guide fitting. For a better (assembly) stability of the CS2024/90-264 models (and version P), we recommend attaching the guide to the panel, also in the point where the power supply unit is to be mounted.

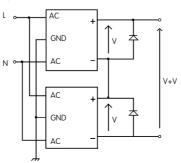
REDUNDANT PARALLEL AND PARALLEL CONNECTION: the models with the letter **P** in the initials and code are supplied as standard with the output protection diode for redundant parallel and parallel connection. We recommend regulating to the same voltage (tolerance + 10mV) the outputs of all the power supply units, applying the same calibration load, before connecting them in parallel. Use power supply units of the same model. If two power supply units not provided with an internal diode (standard versions) have to be connected in parallel, the connection shown in Figure 1 has to be carried out.



figure

figure 2

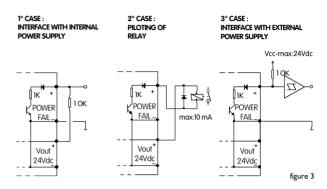
CONNECTION IN SERIES of two power supply units: this is possible by connecting a diode in anti-parallel to the output of each power supply unit, dimensioned to withstand the max. current of the power supply unit (see Figure 2).



264, CS2024/90-264; max. 20mA/24Vdc open collector output.
HIGH (open) status when the line voltage is

POWER FAIL SIGNAL in models CS1224/90-

HIGH (open) status when the line voltage is OK. LOW status signal pulse (closed) 2-4 ms before the output drops below 15 Vdc. The signal PF is used to save or enable programs in microprocessor systems or as a line failure signal. To remote the signal PF, use an opto-isolator (see Figure 3).



POWER GOOD SIGNAL in the models CS624/90-264p, CS1224/90.264p, CS2024/90264P: NO2 A /24 Vdc clean contact output, closed with 24 Vdc output OK; open with: zero output due to line failure, or fault in power supply, or short circuit/overload in output.

POWER SUPPLY WITH 110 Vdc BATTERIES possible on all models in accordance with the following indications: with 110 Vdc power supply, reduce the output current by 25%; minimum voltage 100 Vdc; observe the polarities of the input connections indicated:

CS624/90-264 (also version P):
connect the positive pole to the terminal L
CS1224/90-264 (also version P):
connect the positive pole to the terminal N
CS2024/90-264 (also version P):
connect the positive pole to the terminal L

In the models CS224/90-264(P) and CS424/90-264 (P) the polarity of connection to the terminals L and N is indifferent.

NOTES FOR POWER SUPPLY UNITS WITH TRANSFORMER SECONDARY INPUT

ISOLATION: this series of power supply units is not isolated.

TYPE OF USE: they are suitable for use in PELV (one pole of the Protective Extra Low Voltage earthed) and SELV (Safety Extra Low Voltage, no pole earthed). The transformer used must have double or reinforced isolation in accordance with CEI 14.6 / EN 60742.

In the case of use in **PELV** circuits, only earth one pole of the 24 Vdc of the power supply unit. In the case of use in **SELV** circuits, do not earth the input earth terminal.

The earthing of a pole of the transformer secondary and 24 Vdc of the power supply unit would damage the latter.

OUT	TPUT	INPUT	INPUT TYPE OF TECHNOLOGY TEAM DAGE		DAGE
VOLTAGE	CURRENT	VOLTAGE	TYPE OF TECNOLOGY	ITEM	PAGE
±12 Vdc	2x0.5 A	90÷264 Vac / 110 Vdc	switching	CS5	110
±15 Vdc	2x0.5 A	90÷264 Vac / 110 Vdc	switching	CS6	110
5 Vdc	1 A	90÷264 Vac / 110 Vdc	switching	CS1	108
12 Vdc	1 A	90÷264 Vac / 110 Vdc	switching	CS2	108
15 Vdc	1 A	90÷264 Vac / 110 Vdc	switching	CS3	109
24 Vdc	1 A	24 ÷ 25 Vac	linear	AL24327/1A	121
24 Vdc	1 A	90÷264 Vac / 110 Vdc	switching	CS4	109
24 Vdc	2 A	20 Vac	filtered	AR2624/2A	123
24 Vdc	2.5 A	22÷30 Vac	switching	CS224/24	115
24 Vdc	2.5 A	90÷264 Vac / 110 Vdc	switching	CS224/90-64	111
24 Vdc	4 A	20 Vac	filtered	AR2624/4A	123
24 Vdc	4 A	22÷30 Vac	switching	CS424/24	115
24 Vdc	4 A	25÷27 Vac	linear	CL424/24	121
24 Vdc	4 A	115 Vac	linear	CL424/115	117
24 Vdc	4 A	230 Vac	linear	CL424/230	117
24 Vdc	4 A	90÷264 Vac / 110 Vdc	switching	CS424/90-264	111
24 Vdc	6 A	20 Vac	filtered	AR2624/6A	124
24 Vdc	6 A	22÷30 Vac	switching	CS624/24	116
24 Vdc	6 A	25÷27 Vac	linear	CL624/24	122
24 Vdc	6 A	115 Vac	linear	CL624/115	118
24 Vdc	6 A	230 Vac	linear	CL624/230	118
24 Vdc	6 A	90÷264 Vac / 110 Vdc	switching	CS624/90-264N	112
24 Vdc	6 A	90÷264 Vac / 110 Vdc	switching	CS624/90-264P	112
24 Vdc	6 A	400 Vac	linear	CL624/400	119
24 Vdc	10 A	20 Vac	filtered	AR2624/10A	124
24 Vdc	10 A	25÷27 Vac	linear	CL1024/24	122
24 Vdc	10 A	115 Vac	linear	CL1024/115	119
24 Vdc	10 A	230 Vac	linear	CL1024/230	120
24 Vdc	10 A	400 Vac	linear	CL1024/400	120
24 Vdc	10 A	3x380/400/420 Vac	filtered	RDRKN10K	126
24 Vdc	12 A	22÷30 Vac	switching	CS1224/24	116
24 Vdc	12 A	90÷264 Vac / 110 Vdc	switching	CS1224/90-264	112
24 Vdc	12 A	90÷264 Vac / 110 Vdc	switching	CS1224/90-264P	112
24 Vdc	12 A	3 x 340÷500 Vac	switching	CS12/400	114
24 Vdc	12 A	3 x 340÷500 Vac	switching	CS12/400S	114
24 Vdc	15 A	20 Vac	filtered	AR2624/15A	125
24 Vdc	16 A	3x380/400/420 Vac	filtered	RDRKN16K	126
24 Vdc	20 A	90÷264 Vac / 110 Vdc	switching	CS2024/90-264	113
24 Vdc	20 A	90÷264 Vac / 110 Vdc	switching	CS2024/90-264P	113
24 Vdc	20 A	3 x 340÷480 Vac	switching	CS20/400	114
24 Vdc	20 A	3 x 340÷480 Vac	switching	CS20/400S	114
24 Vdc	20 A	3x380/400/420 Vac	filtered	RDRKN20K	126
24 Vdc	25 A	3x380/400/420 Vac	filtered	RDRKN25K	126
24 Vdc	30 A	3x380/400/420 Vac	filtered	RDRKN30K	126
24 Vdc	40 A	3x380/400/420 Vac	filtered	RDRKN40K	126
24 Vdc	60 A	3x380/400/420 Vac	filtered	RDRKN60K	126



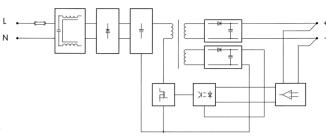
- IP 30 protection degree
- Low noise
- DIN rail mounting

Note

The measure of depth includes the encumbrance of the clamps and the attack to the rail.



Block diagram



Applications

The CABUR switching power supply units of the CS series are designed and developed for industrial uses where safety, ease of use and reliability are essential. These units comply with the parameters set out by the Low Voltage Directive

The low working temperature at full power with 45°C room temperature combined with the use of first quality components ensure high reliability and duration. CABUR switching power supply units comply with EMI standards. The CS series with 90 – 264 Vac input has no ignition problems at full load even with 100 Vac mains voltage and is therefore suitable for critical supply mains. This series is very compact and has an IP30 degree of protection against incidental contacts according to IEC529. All the functions are located on the front panel and marked with IEC symbols, which makes its use very simple, even on site.

Rated voltage Frequency Current at lout max Inrush current at cold start at 230 Vac Current with short circuit in out

Input Technical Data

Power factor

Protection fuse

Output Technical Data

Voltage

Maximum current Continuous current

Load regulation Ripple at lout max

Hold up time

Overload/short circuit protection

Output signal

Parallel connection

CS₁ Cod. XAS1

90 ÷ 264 Vac / 110 Vdc 50 ÷ 60 Hz 88mA at 120 Vac - 33mA at 230 Vac ± 10%

< 20 A

200 mA max.

> 0.6 full load

T 0.8 A (inside mounted)

5 Vdc adjustable 0 ÷ +5%

1.2 A

1 A

< 1.5%

< 50 mV peack to peack

> 100 ms at 230 Vac, > 20 ms at 120 Vac

Hiccup circuit, auto reset

possible with external protection diode

Ordering information

90 ÷ 264 Vac / 110 Vdc

50 ÷ 60 Hz

CS₂

220mA at 120 Vac - 77mA at 230 Vac ± 10%

Cod. XAS2

< 20 A

200 mA max.

> 0.6 full load

T 0.8 A (inside mounted)

12 Vdc adjustable 0 ÷ +5%

1.2 A

1 A

< 1.5%

< 50 mV peack to peack

> 100 ms at 230 Vac, > 20 ms at 120 Vac

Hiccup circuit, auto reset

possible with external protection diode

APPROVALS

General Technical Data

Efficiency

Operating temperature Input / output isolation Input / ground isolation. Output / ground isolation

Protection degree

Standards / Approvals

EMC standards

Surge immunity

Connection terminal blocks

Housing material

Approximative weight

Mounting information

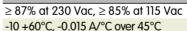
Mounting rail

standard EN 50.022 standard EN 50.035









3 kVac /60 s

> 1.5 KVac / 60 s0.5 kVac /60 s

IEC950, EN 60950, UL1950, UL508C

EN 50081-1, EN 50082-2

EN61000-4-2, EN61000-4-4

terminal blocks 2.5 mm², pluggable

polyamide UL94V-0

~ 0.3 kg

vertical on rail, allow 20 mm spacing between adjacent components

PR/3/AC - PR/3/AS







≥ 87% at 230 Vac. ≥ 85% at 115 Vac -10 +60°C, -0.015 A /°C over 45°C

3 kVac /60 s

> 1.5 kVac / 60 s

0.5 kVac /60 s

IEC950, EN 60950, UL1950, UL508C

EN 50081-1, EN 50082-2

EN61000-4-2, EN61000-4-4

terminal blocks 2.5 mm², pluggable

polyamide UL94V-0

~ 0.3 kg

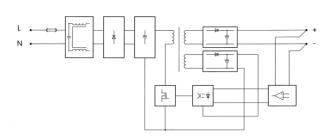
vertical on rail, allow 20 mm spacing between adjacent components





Block diagram

(1) with an input of 110 Vdc, riduce the output current to 25%



Ordering information

CS₃ Cod. XAS3 CS4 Cod. XAS4

Input Technical Data

Rated voltage Frequency Current at lout max Inrush current at cold start at 230 Vac Current with short circuit in out Power factor Protection fuse

Output Technical Data

Voltage Maximum current Continuous current Load regulation Ripple at lout max Hold up time Overload/short circuit protection Output signal Parallel connection

General Technical Data

Operating temperature

Input / output isolation

Protection degree

EMC standards

Surge immunity

Housing material

Mounting rail

Approximative weight

Mounting information

Standards / Approvals

Input / ground isolation,

Output / ground isolation

Connection terminal blocks

standard EN 50.022 ¬¬

standard EN 50.035 ==

APPROVALS

Efficiency

90 ÷ 264 Vac / 110 ÷ 220 Vdc (1)

240mA at 120 Vac - 88mA at 230 Vac ± 10%

< 20 A

200 mA max.

> 0.6 full load

T 0.8 A (inside mounted)

15 Vdc adjustable 0 ÷ +5%

1.2 A

1 A

< 1.5%

< 50 mV peack to peack

> 100 ms at 230 Vac, > 20 ms at 120 Vac

Hiccup circuit, auto reset

possible with external protection diode





≥ 87% at 230 Vac. ≥ 85% at 115 Vac -10 +60°C, -0.02A/°C over 45°C

3 kVac /60 s

> 1.5 kVac / 60 s

0.5 kVac /60 s

IP 30

IEC950, EN 60950, UL1950, UL508C

EN 50081-1, EN 50082-2

EN61000-4-2, EN61000-4-4

terminal blocks 2.5 mm², pluggable

polyamide UL94V-0

 $\sim 0.3 \text{ kg}$

vertical on rail, allow 20 mm spacing between adjacent components

PR/3/AC - PR/3/AS

90 ÷ 264 Vac / 110 Vdc (1)

440mA at 120 Vac - 165mA at 230 Vac ± 10%

< 20 A

200 mA max.

> 0.6 full load

T 0.8 A (inside mounted)

24 Vdc adjustable 0 ÷ +5%

1.2 A

1 A

< 1.5%

< 50 mV peack to peack

> 100 ms at 230 Vac, > 10 ms at 120 Vac

Hiccup circuit, auto reset

possible with external protection diode







≥ 87% at 230 Vac. ≥ 85% at 115 Vac -10 +60°C, - 0.033 A/°C over 45°C

3 kVac /60 s

> 1.5 kVac / 60 s

0.5 kVac /60 s

IP 30

IEC950, EN 60950, UL1950, UL508C

EN 50081-1, EN 50082-2

EN61000-4-2, EN61000-4-4

terminal blocks 2.5 mm², pluggable

polyamide UL94V-0

~ 0.3 kg

vertical on rail, allow 20 mm spacing between adjacent components



SINGLE PHASE SWITCHING **POWER SUPPLY**

- Input voltage 90÷264 Vac / 110 Vdc
- Compact dimension
- IP 30 protection degree
- Low noise
- DIN rail mounting

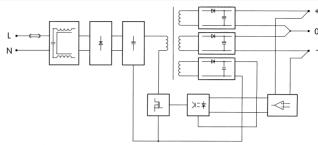
Note

The measure of depth includes the encumbrance of the clamps and the attack to the rail.

(1) with an input of 110 Vdc, riduce the output current to 25%



Block diagram



Applications

The CABUR switching power supply units of the CS series are designed and developed for industrial uses where safety, ease of use and reliability are essential. These units comply with the parameters set out by the Low Voltage Directive

The low working temperature at full power with 45°C room temperature combined with the use of first quality components ensure high reliability and duration. CABUR switching power supply units comply with EMI standards. The CS series with 90 - 264 Vac input has no ignition problems at full load even with low mains voltage and is therefore suitable for critical supply mains. This series is very compact and has an IP30 degree of protection against incidental contacts according to IEC529. All the functions are located on the front panel and marked with IEC symbols, which makes its use very simple, even on site.

Input Technical Data

Rated voltage Frequency Current at lout max Inrush current at cold start at 230 Vac Current with short circuit in out

Power factor Protection fuse

Output Technical data

Voltage

Maximum current Continuous current Load regulation

Ripple at lout max Hold up time

Overload/short circuit protection Output signal

Parallel connection

200 mA max.

> 0.6 full load

T 0.8 A (inside mounted)

±12 Vdc adjustable 0 ÷ +5%

2 x 0.6 A

2 x 0.5 A

< 1.5%

< 50 mV peack to peack

> 100 ms at 230 Vac, > 10 ms at 120 Vac

Hiccup circuit, auto reset

possible with external protection diode

Ordering information

Cod. XAS5 CS₅

CS6

50 ÷ 60 Hz

200 ms max.

> 0.6 full load

< 20 A

Cod. XAS6

90 ÷ 264 Vac / 110 Vdc (1)

50 ÷ 60 Hz

220mA at 120 Vac - 77mA at 230 Vac ± 10%

< 20 A

±15 Vdc adjustable 0 ÷ +5%

2 x 0.6 A

2 x 0.5 A

< 1.5%

< 50 mV peack to peack

90 ÷ 264 Vac / 110 Vdc (1)

T 0.8 A (inside mounted)

> 100 ms at 230 Vac, > 10 ms at 120 Vac

240mA at 120 Vac - 88mA at 230 Vac ± 10%

Hiccup circuit, auto reset

possible with external protection diode

APPROVALS

General technical data

Efficiency Operatina temperature Input / output isolation Input / ground isolation, Output / ground isolation Protection degree

Standards / Approvals

EMC standards Surge immunity

Connection terminal blocks

Housing material

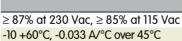
Approximative weight Mounting information

Mounting rail standard EN 50.022 ~~ standard EN 50.035 =









3 kVac /60 s

> 1.5 kVac / 60 s

0.5 kVac /60 s

IEC950, EN 60950, UL1950, UL508C

EN 50081-1, EN 50082-2

EN61000-4-2, EN61000-4-4

terminal blocks 2.5 mm², pluggable

polyamide UL94V-0 ~ 0.3 kg

vertical on rail, allow 20 mm spacing between adjacent components

PR/3/AC - PR/3/AS







≥ 87% at 230 Vac. ≥ 85% at 115 Vac -10 +60°C, -0.033 A/°C over 45°C

3 kVac /60 s

> 1.5 kVac / 60 s

0.5 kVac /60 s

IEC950, EN 60950, UL1950, UL508C

EN 50081-1, EN 50082-2

EN61000-4-2, EN61000-4-4

terminal blocks 2.5 mm², pluggable

polyamide UL94V-0

 $\sim 0.3 \text{ kg}$

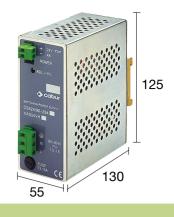
vertical on rail, allow 20 mm spacing between adjacent components



SINGLE PHASE SWITCHING **POWER SUPPLY**

- Input voltage 90÷264 Vac / 110 Vdc
- Functions and description on the frontal panel
- Suited for SELV and PELV



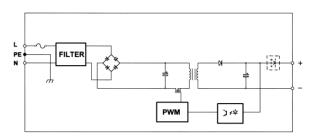


Note

The measure of depth includes the encumbrance of the clamps and the attack to the rail.

(1) with an input of 110 Vdc, riduce the output current to 25%

Block diagram



Applications

The CABUR switching power supply units of the CS series are designed and developed for industrial uses where safety, ease of use and reliability are essential. These units comply with the parameters set out by the Low Voltage Directive

The low working temperature at full power with 45°C operating temperature combined with the use of first quality components ensure high reliability and duration. CABUR switching power supply units comply with EMI standards. The CS series with 90 - 264 Vac input has no ignition problems at full load even with low mains voltage and is therefore suitable for critical supply mains. This series is very compact and has an IP30 degree of protection against incidental contacts according to IEC529. All the functions are located on the front panel and marked with IEC symbols, which makes its use very simple, even on site.

Battery charger

These units can be used also to charge batteries while powering the load. To this purpose, CABUR has developed a module with the necessary diodes and resistance

CSBC for power supply from

Version

Standard version With integral diode

Input Technical Data

Rated voltage Frequency Current at lout max Inrush current at cold start at 230 Vac Current with short circuit in out Power factor Protection fuse

Output Technical data

Voltage Maximum current Continuous current Load regulation Ripple at lout max Hold up time Overload/short circuit protection Output signal Parallel connection

APPROVALS

General technical data

Efficiency Operating temperature Input / output isolation Input / ground isolation, Output / ground isolation Protection degree Standards / Approvals **EMC** standards Surge immunity

Connection terminal blocks Housing material Approximative weight Mounting information

Mounting rail standard EN 50.022 ~~ standard EN 50.035

Ordering information

CS224/90-264

Cod. XAS02VH

90 ÷ 264 Vac / 110 Vdc (1) 50 ÷ 60 Hz 1.1 A at 120 Vac - 0.6 A at 230 Vac ± 10%

< 20 A < 0.2 A> 0.6 full load

T 2 A

24 Vdc adjustable ± 5%

3.5 A 2.5 A

< 100 mV peack to peack

> 50 ms at 230 Vac, > 12 ms at 90 Vac Hiccup circuit, auto reset

possible with external protection diode







≥ 87% at 230 Vac. ≥ 85% at 115 Vac -10 +60°C, -0.08 A/°C over 45°C 3 kVac /60 s 1.5kVac /60 s 0.5 kVac /60 s **IP 20** IEC950, EN 60950, UL1950, UL508C EN 50081-1, EN50082-2 EN61000-4-2, EN61000-4-4 terminal blocks 2.5 mm², pluggable metallic ~ 0.5 kg vertical on rail, allow 20 mm spacing

PR/3/AC - PR/3/AS

between adjacent components

90 ÷ 264 Vac / 110 Vdc (1)

CS424/90-264

1.5 A at 120 Vac - 0.8 A at 230 Vac ± 10%

< 20 A

< 0.2 A

> 0.6 full load

T 3 A

24 Vdc adjustable ± 5%

6 A 4Δ

< 1 %

< 100 mV peack to peack

> 50 ms at 230 Vac, > 12 ms at 90 Vac

Hiccup circuit, auto reset

possible with external protection diode







Cod. XAS04VH

≥ 87% at 230 Vac. ≥ 85% at 115 Vac -10 +60°C, -0.13 A/°C over 45°C

3 kVac /60 s

1.5kVac /60 s

0.5 kVac /60 s

IEC950, EN 60950, UL1950, UL508C

EN 50081-1, EN50082-2

EN61000-4-2, EN61000-4-4

terminal blocks 2.5 mm², pluggable metallic

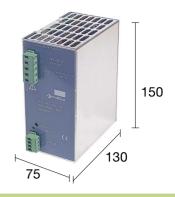
vertical on rail, allow 20 mm spacing between adjacent components



SINGLE PHASE SWITCHING POWER SUPPLY

- Input voltage 90÷264 Vac / 110 Vdc
- With PFC (Power Factor Corrector)
- Functions and description on the frontal panel
- Suited for SELV and PELV
- Available in parallelable version

125 130

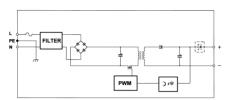


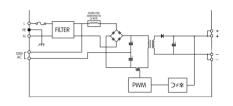
Block diagram

Note

The measure of depth includes the encumbrance of the clamps and the attack to the rail.

- Version with output protection diode for parallel connection.
- Version without Power Fail signal.
- With an input of 110 Vdc, riduce the output current to 25%





Applications

The CABUR switching power supply units of the CS series are designed and developed for industrial uses where safety, ease of use and reliability are essential. These units comply with the parameters set out by the Low Voltage Directive

The low working temperature at full power with 45°C operating temperature combined with the use of first quality components ensure high reliability and duration. CABUR switching power supply units comply with EMI standards. The CS series with 90 – 264 Vac input has no ignition problems at full load even with low mains voltage and is therefore suitable for critical supply mains. This series is very compact and has an IP30 degree of protection against incidental contacts according to IEC529. All the functions are located on the front panel and marked with IEC symbols, which makes its use very simple, even on site.

Battery charger

These units can be used also to charge batteries while powering the load. To this purpose, CABUR has developed a module with the necessary diodes and resistance

CSBC for power supply from

Standard version With integral diode

Input Technical Data

Frequency Current at lout max Inrush current at cold start at 230 Vac

Power factor Protection fuse

Output Technical Data

Voltage Maximum current Continuous current Load regulation Ripple at lout max Hold up time

Output signal

Version

Rated voltage

Current with short circuit in out

Overload/short circuit protection

Parallel connection

APPROVALS

General technical Data

Efficiency Operating temperature Input / output isolation Input / ground isolation,

Output / ground isolation

Protection degree

Standards / Approvals **EMC** standards

Surge immunity

Connection terminal blocks

Housing material

Approximative weight Mounting information

Mounting rail standard EN 50.022 ~~ standard EN 50.035 =

Ordering information

CS624/90-264N Cod. XAS06VHN (2) CS624/90-264P Cod. XAS06VHP (1)

90 ÷ 264 Vac / 110 Vdc (3)

50 ÷ 60 Hz

2.1 A at 120 Vac - 1.2 A at 230 Vac ± 10%

< 30 A

< 0.3 A

> 0.6 full load

T 3.15 A

24 Vdc adjustable ± 5%

8 A

6 A

< 1 %

< 100 mV peack to peack

> 50 ms at 230 Vac, > 12 ms at 90 Vac

Hiccup circuit, auto reset

standard version: -

"P" version: NO contact 2 A / 24 Vdc standard version: possible with external diode "P" version: already predisposed







≥ 85% at 230 Vac. ≥ 80% at 115 Vac -10 +60°C, -0.2 A/°C over 45°C

3 kVac /60 s

1.5kVac /60 s

0.5 kVac /60 s

IEC950, EN 60950, UL1950, UL508C

EN 50081-1, EN50082-2

EN61000-4-2, EN61000-4-4

terminal blocks 2.5 mm², pluggable metallic

 $\sim 0.73 \text{ kg}$

vertical on rail, allow 20 mm spacing between adjacent components

PR/3/AC - PR/3/AS

CS1024/120-230 Cod. XAS10VH

120 - 230 Vac (3) range 90÷132/187÷264 Vac

3.5 A at 120 Vac - 1.8 A at 230 Vac ± 10%

< 30 A at 120 Vac - < 30 A at 230 Vac

< 0.25 A

> 0.75

T 5 A

24 Vdc adjustable ± 5%

11 A

10 A

<1%

< 100 mV peack to peack

> 100 ms at 230 Vac, > 30 ms at 100 Vac

Hiccup circuit, 1.1 In auto reset

standard version: -

"P" version :

standard version: possible with external diode

"P" version:

UL, CSA pending

≥ 88% at 230 Vac. ≥ 86% at 120 Vac

-10 +60°C, -0.3 A/°C over 45°C

3 kVac /60 s

1.5kVac /60 s

0.5 kVac /60 s

IEC950, EN 60950

EN 50081-1, EN50082-2, EN61000-3-2,3

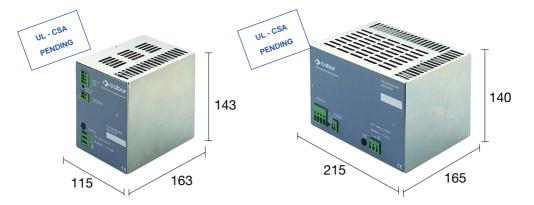
EN61000-4-2, EN61000-4-4, EN61000-4-5 terminal blocks 2.5 mm², pluggable

metallic

~ 1.05 kg

vertical on rail, allow 20 mm spacing between adjacent components



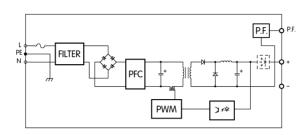


Note

The measure of depth includes the encumbrance of the clamps and the attack to the rail.

- Version with output protection diode for parallel connection.
- (2) With an input of 110 Vdc, riduce the output current to 25%

Block diagram



Input Technical Data

Rated voltage
Frequency
Current at lout max
Inrush current at cold
start at 230 Vac
Current with short circuit in out
Power factor
Protection fuse

Output Technical Data

Voltage
Maximum current
Continuous current
Load regulation
Ripple at lout max
Hold up time
Overload/short circuit protection
Output signal
Parallel connection

APPROVALS

General technical Data

Efficiency
Operating temperature
Input / output isolation
Input / ground isolation,
Output / ground isolation
Protection degree
Standards / Approvals
EMC standards
Surge immunity
Connection terminal blocks
Housing material
Approximative weight
Mounting information

Mounting rail standard EN 50.022 ¬¬ standard EN 50.035 ¬¬¬

Ordering information

CS1224/90-264 Cod. XAS12VH **CS1224/90-264P** Cod. XAS12VHP (1)

90 ÷ 264 Vac / 110 Vdc (2) 50 ÷ 60 Hz 3A at 120 Vac - 1.6 A at 230 Vac ± 10%

< 30 A < 0.3 A

> 0.97 full load with PFC

T 6 A

24 Vdc adjustable ± 5%

14.4 A

12 A < 1 %

< 100 mV peack to peack

> 100 ms at 230 Vac, > 20 ms at 90 Vac

Costant current 1.1 x ln, auto reset

standard version : Power Fail (open coll.20 mA)
"P" version : NO contact 2 A / 24 Vdc

standard version : possible with external diode "P" version : already predisposed

UL, CSA pending

≥ 85% at 230 Vac, ≥ 80% at 115 Vac

-10 +60°C, -0.4 A/°C over 45°C

3 kVac /60 s

1.5kVac /60 s

0.5 kVac /60 s

IP 20

IEC950, EN 60950

EN 50081-1, EN50082-2, EN61000-3-2,3

EN61000-4-2, 4, EN61000-4-5

terminal blocks 2.5 mm², fixed

metallic

~ 2.5 kg

vertical on rail, allow 20 mm spacing between adjacent components

PR/3/AC - PR/3/AS

_

CS2024/90-264 Cod. XAS20VH **CS2024/90-264P** Cod. XAS20VHP (1)

90 ÷ 264 Vac / 110 Vdc (2)

50 ÷ 60 Hz

5 A at 120 Vac - 2.5 at 230 Vac ± 10%

< 40 A

< 0.7 A

> 0.95 full load with PFC

T 10 A

24 Vdc adjustable ± 5%

24 A

20 A

< 1%

< 200 mV peack to peack

> 100 ms at 230 Vac, > 20ms at 90 Vac

Costant current 1.1 x ln, auto reset

standard version: Power Fail (open coll.20 mA)

"P" version: NO contact 2 A / 24 Vdc standard version: possible with external diode

"P" version: already predisposed

T Version : uneday predispose

UL, CSA pending

 \geq 83% at 230 Vac, \geq 80% at 115 Vac

-10 +60°C, -0.66 A/°C over 45°C

3 kVac /60 s

1.5kVac /60 s

0.5 kVac /60 s

IP 20

IEC950, EN 60950

EN 50081-1, EN50082-2, EN61000-3-2,3

EN61000-4-2, 4, EN61000-4-5

terminal blocks , IN 2.5 $\text{mm}^2\text{, OUT 4}\ \text{mm}^2\text{, fixed}$

metallic

~ 3.8 kg

vertical on rail, allow 20 mm spacing between adjacent components

PR/3/AC - PR/3/AS

-



THREE PHASE SWIT-CHING POWER SUPPLY

- Phase failure protected
- Undervoltage protected
- Fast transient protected
- Auto or manual reset version
- Input and output EMI filters
- Can be used as battery charger

Note

The measure of depth includes the encumbrance of the clamps and the attack to the rail.

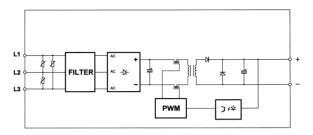
- (1) Version with manual reset after short circuit, the reset happens OFF commuting and therefore ON the input voltage.
- (2) In the version with manual reset the overload and short circuit protection intervenes with 1s. of delay.





Block diagram

UL-CSA PENDING



Applications

In this series of power sup-ply units, Cabur offers the safety "S" version in which, in the event of a short circuit on the 24 Vdc line, the output voltage is not restored automatically but instead via a deliberate reset opera-tion. This feature makes them suitable for applica-tions in which the risk linked to accidental start-up is to be avoided, as indicated by the standard EN 60204-1 under point 9.2.3. The internal circuit for blocking the power supply is tripped within a definite time, controlled by the power supply unit itself according to the characteristic curve of the overload and short circuit protection with additional safety of the block compared to external circuits whose functioning cannot be predicted with certainty.

Version

Standard version With manual reset

Input Technical Data

Rated voltage Frequency

Current at lout max

Inrush current at cold

start at 230 Vac

Current with short circuit in out Protection fuse

CS12/400 Cod. XAS12VG CS12/400S Cod. XAS12VGS (1)

min. 340 Vac, max. 500 Vac

Ordering information

50 ÷ 60 Hz

≤ 1.5 A every phase

 $< 20 \Delta$

 $< 0.5 \Delta$

T 3 A to install externally

CS20/400 CS20/400S

Cod. XAS20VG Cod. XAS20VGS (1)

min. 340 Vac, max. 500 Vac

50 ÷ 60 Hz

≤ 1.5 A every phase

≤ 20 A

≤ 0.5 A

T 3 A to install externally

Output Technical data

Voltage

Maximum current

Continuous current

Load regulation

Ripple at lout max

Hold up time

Overload/short circuit protection

Output signal

Parallel connection

24 Vdc adjustable ± 5%

< 100 mV peack to peack

> 12 ms a 400 Vac

1.1 In, costant current, automatic reset (2)

possible with external protection diode

< 100 mV peack to peack

> 12 ms a 400 Vac

1.1 In, costant current, automatic reset (2)

APPROVALS

General Technical Data

Efficiency

Operating temperature Input / output isolation

Input / ground isolation,

Output / ground isolation

Protection dearee

Safety standards

EMC standards

Surge immunity

Connection terminal blocks

Housing material

Approximative weight

Mounting information

Mounting rail

standard EN 50.022 ~~ standard EN 50.035

14 A

12 A

<1%

UL, CSA pending

≥ 88% at 400 Vac

-10 +60°C, -0.4 A /°C over 45°C

3 kVac /60 s

1.5 kV

0.5 kV

IP 20

EN 60950, IEC950

EN 55081-1, EN 50082-2

EN 61000-4-2, EN 61000-4-4 terminal blocks, IN 2.5 mm², OUT 4 mm²

metallic ~ 1.9 kg

vertical on rail, allow 20 mm spacing between adjacent components

PR/3/AC - PR/3/AS

24 Vdc adjustable ± 5% 24 A

20 A

possible with external protection diode

UL, CSA pending

≥ 88% at 400 Vac

-10 +60°C, -0.66 A /°C over 45°C

3 kVac /60 s

1.5 kV

0.5 kV

IP 20

EN 60950, IEC950

EN 55081-1, EN 50082-2

EN61000-4-2, EN61000-4-4 terminal blocks, IN 2.5 mm², OUT 4 mm²

metallic

~ 2.4 kg vertical on rail, allow 20 mm spacing between adjacent components

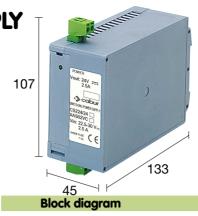


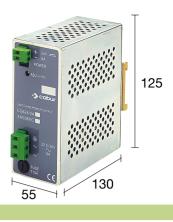
SWITCHING POWER SUPPLY WITH INPUT 22÷30 Vac

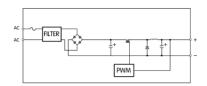
- Standard input voltage 24 Vac
- Dissipated power inferior to 10%
- Overload/short circuit protection with automatic restore
- Input protection fuse
- Compact designe save panel space

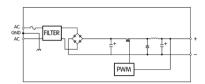
Note

The measure of depth includes the encumbrance of the clamps and the attack to the rail.









Applications

The CABUR power supply units series CS .../24 with 22 - 30 Vac input allow transformers with standard secondary voltage of 24 Vac to be used, more economical and more readily available than transformers with special voltages.

They are suitable for use in SELV and PELV circuits. In PELV circuits, in which one safety low voltage pole has to be earthed, taking care not to earth the secondary winding of the transformer too, but only one pole, normally the negative, of the 24 Vdc output of the power supply effectively used as control voltage.

The earthing together of a pole of the secondary of the transformer and a pole of the 24 Vdc of the power supply unit would inevitably damage the power supply unit itself.

The purpose of the earthing connection is to discharge the interference trapped by the input filter and must be as short as possible.

Do not connect the earth terminal in SELV circuits.

The input and output of the power supply units in the CS .../24 series are not isolated. The safety isolation function is therefore assigned to the external transformer which has to conform with the standard CEI 14-6 and/or EN60742.

Voltage
Frequency
Current at lout max.
Protection fuse

Input Technical Data

Ordering information

CS224/24 Cod. XAS02VC

22 ÷ 30 Vac 50 ÷ 60 Hz 2.8 A

T 5 A (inside mounted)

CS424/24

Cod. XAS04VC

22 ÷ 30 Vac 50 ÷ 60 Hz 4.6 A T 10 A

Output Technical data

Voltage
Maximum current
Continuous current
Load regulation
Ripple at lout max
Hold up time
Overload/short circuit protection
Output signal
Parallel connection

24 Vdc adjustable ± 5%
3.5 A
2.5 A
< 1 %
< 100 mV peack to peack
> 15 ms
Hiccup circuit, auto reset

_

24 Vdc adjustable ± 5%

6 A

4 A

<1%

< 100 mV peack to peack

> 15 ms

Hiccup circuit, auto reset

_

General Technical Data

Efficiency

Operating temperature
Input / output isolation
Input / ground isolation,
Output / ground isolation
Protection degree
EMC standards
Surge immunity
Connection terminal blocks
Housing material
Approximative weight
Mounting information

Mounting rail standard EN 50.022 ¬¬ standard EN 50.035 □ ≥ 90%

- 10 +60°C, - 0.08 A / °C over 45°C

_

0.5 kVac / 60 s

IP 20

EN 50081-1, EN 50082-2 varistor - 4.5 kA 8/20 in input terminal blocks 2.5 mm², pluggable polyamide UL94V-0

~ 0.5 kg

vertical on rail, allow 20 mm spacing between adjacent components

PR/3/AC - PR/3/AS

-

> 90%

- 10 +60°C, - 0.13 A / °C over 45°C

_

0.5 kVac / 60 s

IP 20

EN 50081-1, EN 50082-2 varistor - 4.5 kA 8/20 in input

terminal blocks 2.5 mm², pluggable metallic

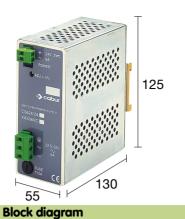
~ 0.65 kg

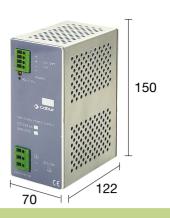
vertical on rail, allow 20 mm spacing between adjacent components

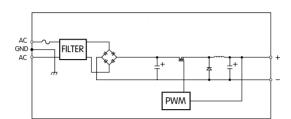
PR/3/AC - PR/3/AS

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Ordering information

CS624/24

Cod. XAS06VC

CS1224/24

Cod. XAS12VC

Input Technical Data

Voltage
Frequency
Current at lout max.
Protection fuse

22 ÷ 30 Vac 50 ÷ 60 Hz 6.6 A T 10 A 22 ÷ 30 Vac 50 ÷ 60 Hz

13.2 A

T 16 A (inside mounted)

OutputTechnical data

Voltage
Maximum current
Continuous current
Load regulation
Ripple at lout max
Hold up time
Overload/short circuit protection
Output signal
Parallel connection

24 Vdc adjustable ± 8%
8 A
6 A
< 1 %
< 100 mV peack to peack
> 15 ms
Hiccup circuit, auto reset

24 Vdc adjustable ± 8% 14 A 12 A < 1 %

< 100 mV peack to peack > 15 ms Hiccup circuit, auto reset

-

General Technical Data

Efficiency
Operating temperature
Input / output isolation
Input / ground isolation,
Output / ground isolation
Protection degree
EMC standards
Surge immunity
Connection terminal blocks
Housing material
Approximative weight
Mounting information

Mounting rail standard EN 50.022 ¬¬ standard EN 50.035 ¬¬

≥ 90%

- 10 +60°C, - 0.2 A / °C over 45°C

_

0.5 kVac /60 s

IP 20

EN 50081-1, EN 50082-2 varistor - 4.5 kA 8/20 in input terminal blocks 2.5 mm², pluggable metallic

~ 0.7 kg.

vertical on rail, allow 20 mm spacing between adjacent components

PR/3/AC - PR/3/AS

_

≥ 90%

- 10 ÷ 50°C, - 0.5 A / °C over 45°C

0.5 kVac /60 s

IP 20

EN 50081-1, EN 50082-2 varistor - 4.5 kA 8/20 in input terminal blocks 2.5 mm², pluggable

metallic ~ 0.9 kg

vertical on rail, allow 20 mm spacing between adjacent components

PR/3/AC - PR/3/AS

-



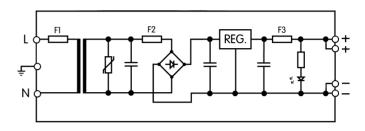
LINEAR POWER SUPPLY WITH TRANSFORMER

- DIN rail mounting
- IP20 metallic housing
- Ample surface of dissipation
- Technical data and accessible fuses on the frontal side
- Constant operation during the micro interruptions of main (Hold up time)
- Suited for the employment of circuits SELV and PELV
- Strengthened toridal transformer second EN60742 standard





Block diagram



Ordering information

CL424/115

Cod. XAL04VE

CL424/230

Cod. XAL04VF

Input Technical Data

Voltage Frequency Current at I out max. Protection fuse (F1)

115 Vac ± 10% 50 ÷ 60 Hz 1.4 A T 1.4 A

 $230 \text{ Vac} \pm 10\%$ 50 ÷ 60 Hz 0.7 A T 1.6 A

Output Technical data

Voltage Maximum current

Load regulation Ripple at I out max.

Hold up tume

Overload/short circuit protection

Output signal

Parallel connection

24 Vdc adjustable ± 10%

± 0.5 V with Δ I out 90%

30 mV peack to peack

90 ms

fuse - F 5 A

possible with external protection diode

24 Vdc adjustable ± 10%

 \pm 0.6 V with Δ I out 90%

30 mV peack to peack

90 ms

fuse - F 5 A

possible with external protection diode

General Technical Data

Operating temperature Input/Output isolation Input/ground isolation Output/ground isolation Protection degree **EMC** standards Safety standards Surge immunity Connection terminal blocks Housing material

Mounting rail standard EN 50.022 ~~ standard EN 50.035 🗀

Approximative weight

Mounting information

- 10 ÷ 50 °C, -0.1 A /°C over 40°C

3 kV 1.5 kV 0.5 kV **IP 20**

EN 55011-A1

EN60950, IEC950

EN 61000-4-2, EN 61000-4-4

terminal blocks 2.5 mm², pluggable metallic

~ 3 kg

vertical on rail, allow 20 mm spacing between adjacent components

PR/3/AC - PR/3/AS

- 10 ÷ 50 °C, -0.1 A /°C over 40°C

3 kV 1.5 kV

0.5 kV

IP 20

EN 55011-A1 EN60950, IEC950

EN 61000-4-2, EN 61000-4-4

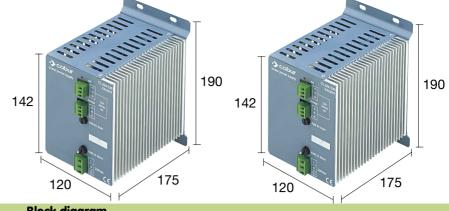
terminal blocks 2.5 mm², pluggable metallic

 $\sim 3 \text{ kg}$

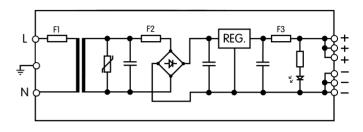
vertical on rail, allow 20 mm spacing between adjacent components



LINEAR POWER SUPPLY WITH TRANSFORMER



Block diagram



Ordering information

CL624/115 Cod. XAL06VE CL624/230 Cod. XAL06VF

Input Technical Data

Voltage Frequency Current at I out max. Protection fuse (F1)

115 Vac ± 10% 50 ÷ 60 Hz 2 A T 5 A

230 Vac ± 10% 50 ÷ 60 Hz 2 A T 2.5 A

OutputTechnical data

Voltage Maximum current Load regulation Ripple at I out max. Hold up time Overload/short circuit protection

Output signal

Parallel connection

24 Vdc adjustable ± 10% 6 A ± 0.6 V with Δ I out 90% 40 mmV peack to peack 100 ms fuse - F 8 A possible with external protection diode

24 Vdc adjustable ± 10% 6 A \pm 0.6 V with Δ I out 90% 40 mmV peack to peack 100 ms fuse - F 8 A possible with external protection diode

General Technical Data

Operating temperature Input/Output isolation Input/ground isolation Output/ground isolation Protection degree **EMC** standards Safety standards Surge immunity Connection terminal blocks Housing material Approximative weight Mounting information

Mounting rail standard EN 50.022 ~~ standard EN 50.035 ==

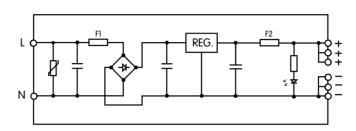
- 10 ÷ 50 °C, -0.15 A /°C over 40°C 3 kV 1.5 kV 0.5 kV IP 20 EN 55011-A1 EN60950, IEC950 EN 61000-4-2, EN 61000-4-4 terminal blocks 2.5 mm², pluggable metallic ~ 4.1 kg vertical, fixing with screw, to outdistance 20 mm from the adjacent components (from to use only as support) PR/3/AC - PR/3/AS

- 10 ÷ 50 °C, -0.15 A /°C over 40°C 3 kV 1.5 kV 0.5 kV IP 20 EN 55011-A1 EN60950, IEC950 EN 61000-4-2, EN 61000-4-4 terminal blocks 2.5 mm², fixed metallic ~ 4.1 kg vertical, fixing with screw, to outdistance 20 mm from the adjacent components (from to use only as support) PR/3/AC - PR/3/AS





Block diagram



Ordering information

CL624/400 Cod. XAL06VG CL1024/115 Cod. XAL10VE

Input Technical Data

Voltage
Frequency
Current at I out max.
Protection fuse (F1)

400 Vac ± 10% 50 ÷ 60 Hz 0.52 A T 1.6 A

115 Vac ± 10% 50 ÷ 60 Hz 3 A T 6.3 A

OutputTechnical data

Voltage
Maximum current
Load regulation
Ripple at I out max.
Hold up time
Overload/short circuit protection
Output signal
Parallel connection

24 Vdc adjustable ± 10%
6 A
± 0.6 V with \triangle I out 90%
40 mV peack to peack
100 ms
fuse - F 8 A

possible with external protection diode

24 Vdc adjustable ± 10%
10 A
± 0.6 V with Δ I out 90%
60 mV peack to peack
90 ms
fuse - F 12 A

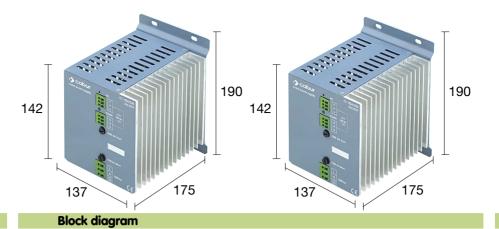
possible with external protection diode

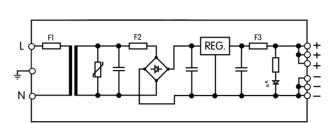
General Technical Data

Operating temperature
Input/Output isolation
Input/ground isolation
Output/ground isolation
Protection degree
EMC standards
Safety standards
Surge immunity
Connection terminal blocks
Housing material
Approximative weight
Mounting information

Mounting rail standard EN 50.022 ¬ standard EN 50.035 ¬¬ - 10 ÷ 50°C, -0.15 A /°C over 40°C
3 kV
1.5 kV
0.5 kV
IP 20
EN 55011-A1
EN60950, IEC950
EN 61000-4-2, EN 61000-4-4
terminal blocks 2.5 mm², pluggable metallic
~ 4.1 kg
vertical, fixing with screw, to outdistance
20 mm from the adjacent components
(from to use only as support)
PR/3/AC - PR/3/AS

- 10 ÷ 50°C, -0.25 /°C over 40°C
3 kV
1.5 kV
0.5 kV
IP 20
EN 55011-A1
EN60950, IEC950
EN 61000-4-2, EN 61000-4-4
terminal blocks 2.5 mm², pluggable
metallic
~ 4.1 kg
vertical, fixing with screw, to outdistance
20 mm from the adjacent components
(from to use only as support)
PR/3/AC - PR/3/AS





Ordering information

CL1024/230 Cod. XAL10VF **CL1024/400** Cod. XAL10VG

Input Technical Data

Voltage
Frequency
Current at I out max.
Protection fuse (F1)

230 Vac ± 10% 50 ÷ 60 Hz 1.5 A T 3.15 A 400 Vac ± 10% 50 ÷ 60 Hz 0.8 A T 2 A

OutputTechnical data

Voltage
Maximum current
Load regulation
Ripple at I out max.
Hold up time
Overload/short circuit protection
Output signal
Parallel connection

24 Vdc adjustable ±10%
10 A
± 0.6 V with D I out 90%
60 mV peack to peack
90 ms
fuse - F 12 A

possible with external protection diode

24 Vdc adjustable ±10%
10 A
± 0.6 V with D I out 90%
60 mV peack to peack
90 ms
fuse - F 12 A

possible with external protection diode

General Technical Data

Operating temperature
Input/Output isolation
Input/ground isolation
Output/ground isolation
Protection degree
EMC standards
Safety standards
Surge immunity
Connection terminal blocks
Housing material
Approximative weight
Mounting information

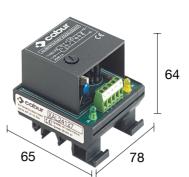
Mounting rail standard EN 50.022 standard EN 50.035 =

- 10 ÷ 50°C, -0.25 A /°C over 40°C
3 kV
1.5 kV
0.5 kV
IP 20
EN 55011-A1
EN60950, IEC950
EN 61000-4-2, EN 61000-4-4
terminal blocks 2.5 mm², pluggable
metallic
~ 2.35 kg
vertical, fixing with screw, to outdistance 20
mm from the adjacent components
(from to use only as support)
PR/3/AC - PR/3/AS

- 10 ÷ 50°C, -0.25 A /°C over 40°C
3 kV
1.5 kV
0.5 kV
IP 20
EN 55011-A1
EN60950, IEC950
EN 61000-4-2, EN 61000-4-4
terminal blocks 2.5 mm², fixed
metallic
~ 2.35 kg
vertical, fixing with screw, to outdistance
20 mm from the adjacent components
(from to use only as support)
PR/3/AC - PR/3/AS

LINEAR POWER SUPPLY WITHOUT **TRANSFORMER**

- DIN rail mounting
- IP20 metallic housing
- Ample surface of dissipation
- Technical data and accessible fuses on the frontal side
- Constant operation during the micro interruptions of main (Hold up time)

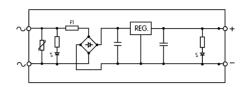


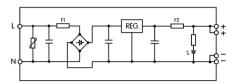


Note

(1) green LED ON = input voltage is OK yellow LED ON = output voltage is OK yellow LED OFF = overtemperature or short circuit in output

Block diagram





Ordering information

AL24327/1A

Cod. XAL24127

CL424/24

Cod. XAL04VC

Input Technical Data

Voltage Frequency Current at I out max.

Protection fuse (F1)

24 ÷ 25 Vac 50 ÷ 60 Hz

T 2.5 A

2.5 A

25 Vac ÷ 27 Vac

50 ÷ 60 Hz

8 A

1.5 A (inside mounted)

Output Technical Data

Voltage

Maximum current

Load regulation

Ripple at I out max.

Hold up time

Overload/short circuit protection

Output signal

Parallel connection

 $24 \text{ Vdc} \pm 3\%$ (not adjustable)

1 A

± 0.5 V con lout 90%

< 50 mV peack to peack

electronic with auto reset (1)

24 Vdc adjustable ±10%

± 0.5 V with D I out 90%

30 mV peack to peack

90 ms

fuse - F 5 A

possible with external protection diode

General Technical Data

Operating temperature Input/Output isolation Input/ground isolation

Output/ground isolation Protection degree

EMC standards

Safety standards Surge immunity

Connection terminal blocks

Housing material Approximative weight Mounting information

Mounting rail standard EN 50.022 ~~ standard EN 50.035 =

-10 ÷ 50°C -0.025 A /°C over 50°C

0.5 kVac / 60 s 0.5 kVac / 60 s

IP00

EN 55011-A1

EN 61000-4-2, EN 61000-4-4 terminal blocks 2.5 mm², fixed polyamide UL94V0

~ 135 gr

PR/3/AC - PR/3/AS PR/DIN/AC - PR/DIN/AS - PR/DIN/AL - 10 +50°C, -0.1 A /°C over 40°C

IP 20

EN 55011-A1

EN 61000-4-2, EN 61000-4-4

terminal blocks 2.5 mm², pluggable metallic

 $\sim 0.8 \text{ kg}$

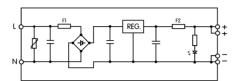
vertical on rail, allow 20 mm spacing between adjacent components

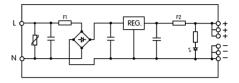






Block diagram





Ordering information

CL624/24

Cod. XAL06VC

CL1024/24

Cod. XAL10VC

Input Technical Data

Voltage
Frequency
Current at I out max.
Protection fuse (F1)

25 Vac ÷ 27 Vac 50 ÷ 60 Hz 12 A

20 A (inside mounted)

25 Vac ÷ 27 Vac 50 ÷ 60 Hz

20 A

30 A (inside mounted)

Output Technical Data

Voltage
Maximum current
Load regulation
Ripple at I out max.
Hold up time
Overload/short circuit protection
Output signal
Parallel connection

24 Vdc adjustable ±10%
6 A
± 0.6 V with D I out 90%
40 mV peack to peack
100 ms
fuse - F 8 A

possible with external protection diode

24 Vdc adjustable ± 10%
10 A
± 0.6 V with D I out 90%
60 mV peack to peack
90 ms
fuse - F 12 A

possible with external protection diode

General Technical Data

Operating temperature
Input/Output isolation
Input/ground isolation
Output/ground isolation
Protection degree
EMC standards
Safety standards
Surge immunity
Connection terminal blocks
Housing material
Approximative weight
Mounting information

Mounting rail standard EN 50.022 ¬¬ standard EN 50.035 ¬¬

- 10 +50°C, -0.1 A /°C over 40°C

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IP 20

EN 55011-A1, IEC 801.1.2.3.4

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EN 61000-4-2, EN 61000-4-4

terminal blocks 2.5 mm², pluggable metallic

 $\sim 2.05 \text{ kg}$

vertical on rail, allow 20 mm spacing between adjacent components

PR/3/AC - PR/3/AS

_

- 10 +50°C, -0.25 A /°C over 40°C

_

IP 20

EN 55011-A1, IEC 801.1.2.3.4

_

EN 61000-4-2, EN 61000-4-4 terminal blocks 2.5 mm², fixed

metallic

 $\sim 2.35 \text{ kg}$

vertical on rail, allow 20 mm spacing between adjacent components

PR/3/AC - PR/3/AS

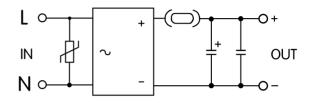
-



FILTERED POWER SUPPLY WITHOUT TRANSFORMER



Block diagram



Applications

By means of an external transformer (not supplied) the line voltage is reduced to the required level. A rectifier bridge and a filter capacity convert the alternating voltage into a continuous voltage. Since the power supply unit is not stabilised, the level of the output varies considerably according to the absorption required and according to the oscillations of the line voltage. The formulae included in the output specifications allow an indication of the loadless voltage, that a continuous of the load and full load to be obtained. This will enable you to chose the most suitable transformer for your needs.

Ordering information

AR2624/2A Cod. XAR26002

AR2624/4A

Cod. XAR26004

Input Technical Data

Voltage
Frequency
Current at I out max.

9 ÷ 24 Vac ± 5% 50 ÷ 60 Hz 2.4 A 9 ÷ 24 Vac ± 5% 50 ÷ 60 Hz 4.8 A

Output Technical Data

Voltage (0 load)
Voltage (50% load)
Voltage (100% load)
Maximum current
Ripple
Protection fuse

Vout = (Vin x 1.41) - 1.2 Vout = (Vin x 1.41) - 3.6 Vout = (Vin x 1.41) - 4.8 2 A <10% T 3.15 A Vout = (Vin x 1.41) - 1.2 Vout = (Vin x 1.41) - 3.6 Vout = (Vin x 1.41) - 4.8 4 A <10% T 5 A

General Technical Data

Operating temperature
Protection degree
Surge immunity
Connection terminal blocks
Housing material
Weigth
Mounting information

Mounting rail standard EN 50.022 ¬¬ standard EN 50.035 ¬

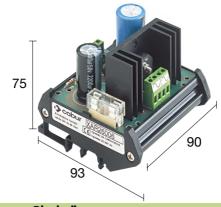
- 10 + 45°C
IP 00
varistor 1 kA
terminal blocks 2.5 mm², fixed
polyamide UL94V-0
~ 80 g
vertical on rail, allow 20 mm spacing
between adjacent components

PR/3/AC - PR/3/AS PR/DIN/AC - PR/DIN/AS - PR/DIN/AL - 10 + 45°C
IP 00
varistor 1 kA
terminal blocks 2.5 mm², fixed
polyamide UL94V-0
~ 100 g
vertical on rail, allow 20 mm spacing
between adjacent components

PR/3/AC - PR/3/AS PR/DIN/AC - PR/DIN/AS - PR/DIN/AL

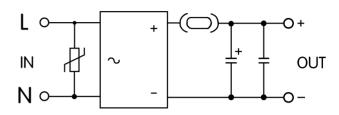


FILTERED POWER SUPPLY WITHOUT TRANSFORMER





Block diagram



Applications

By means of an external transformer (not supplied) the line voltage is reduced to the required level. A rectifier bridge and a filter capacity convert the alter-nating voltage into a continuous voltage. Since the power supply unit is not stabilised, the level of the output varies considerably according to the absorption required and according to required and according to the oscillations of the line voltage. The formulae inclu-ded in the output specifica-tions allow an indication of the loadless voltage, that at 50% of the load and full load to be obtained. This will enable you to chose the most suitable transformer for your needs.

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Ordering information

AR2624/6A

Cod. XAR26006

AR2624/10A Cod. XAR26010

Input Technical Data

Voltage Frequency Current at I out max. $9 \div 24 \, \text{Vac} \pm 5\%$ 50 ÷ 60 Hz 7.2 A

 $9 \div 24 \, \text{Vac} \pm 5\%$ 50 ÷ 60 Hz 12 A

Output Technical Data

Voltage (0 load) Voltage (50% load) Voltage (100% load) Maximum current **Ripple** Protection fuse

 $Vout = (Vin \times 1.41) - 1.2$ $Vout = (Vin \times 1.41) - 3.6$ $Vout = (Vin \times 1.41) - 4.8$ 6 A < 10% T 8 A

 $Vout = (Vin \times 1.41) - 1.2$ Vout = $(Vin \times 1.41) - 3.6$ Vout = $(Vin \times 1.41) - 4.8$ 10 A < 10% T 15 A

General Technical Data

Operating temperature Protection degree Surge immunity Connection terminal blocks Housing material Weigth Mounting information

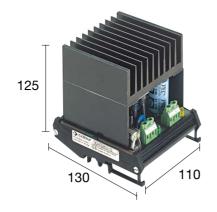
Mounting rail standard EN 50.022 ~~ standard EN 50.035 =

- 10 + 45°C IP 00 varistor 1 kA terminal blocks 2.5 mm², fixed polyamide UL94V-0 ~ 180 g vertical on rail, allow 20 mm spacing between adjacent components

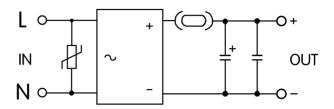
PR/3/AC - PR/3/AS PR/DIN/AC - PR/DIN/AS - PR/DIN/AL

- 10+ 45°C IP 00 varistor 1 kA terminal blocks 2.5 mm2, fixed polyamide UL 94 V-0 ~ 390 g vertical on rail, allow 20 mm spacing between adjacent components

PR/3/AC - PR/3/AS PR/DIN/AC - PR/DIN/AS - PR/DIN/AL



Block diagram



Ordering information

AR2624/15A Cod. XAR26015

Input Technical Data

Voltage
Frequency
Current at I out max.

9 ÷ 24 Vac ± 5% 50 ÷ 60 Hz 18 A

Output Technical Data

Voltage (0 load)
Voltage (50% load)
Voltage (100% load)
Maximum current
Ripple
Protection fuse

Vout = (Vin x 1.41) - 1.2 Vout = (Vin x 1.41) - 3.6 Vout = (Vin x 1.41) - 4.8 15 A < 10%

T 20 A

General Technical Data

Operating temperature
Protection degree
Surge immunity
Connection terminal blocks
Housing material
Weigth
Mounting information

Mounting rail standard EN 50.022 ¬¬ standard EN 50.035 ¬¬

- 10 ÷ 50 °C

IP 00

varistor 1 kA

terminal blocks 2.5 mm², fixed

polyamide UL94V-0

~ 480 gr

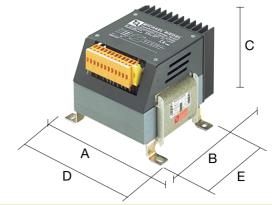
vertical on rail, allow 20 mm spacing

between adjacent components

PR/3/AC - PR/3/AS PR/DIN/AC - PR/DIN/AS - PR/DIN/AL



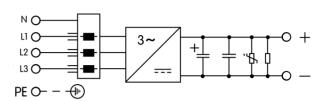
THREE PHASE FILTERED POWER SUPPLY RDRKN - - K



Note

- (1) execution: in closed version with assemblage in panell with stirrups of fixing.
- (2) connections with screw terminal blocks for transformer and faston 6,3 \times 0,8 mm up to 20 A.

Block diagram



Applications

Through a 3-phase rectifier with filtering capacitors, these units support an input voltage of 3 x 380-400-420 Vac and deliver an output voltage of 24 Vdc with a residual ondulation lower than 2%.

Version
maximum current
10 A
16 A
20 A
25 A
30 A
40 A
60 A

Dimension (A x B x C x D x E)	weight	fixing
156 x 165 x 110 x 140 x 100 mm	4,9 kg	M 5
156 x 165 x 125 x 140 x 100 mm	6,5 kg	M 5
206 x 190 x 140 x 184 x 120 mm	9,8 kg	M 6
206 x 190 x 150 x 184 x 120 mm	10,7 kg	M 6
206 x 190x 150 x 184 x 120 mm	11,5 kg	M 6
254 x 235 x 155 x 228 x 152 mm	n 17,0 kg	M 6
254 x 235 x 180 x 228 x 152 mm	n 22,0 kg	M 6

Ordering information				
RDRKNIOK	Cod. XM28K01			
RDRKN16K	Cod. XM28K02			
RDRKN20K	Cod. XM28K03			
RDRKN25K	Cod. XM28K04			
RDRKN30K	Cod. XM28K05			
RDRKN40K	Cod. XM28K06			
RDRKN60K	Cod. XM28K07			

Input Technical Data

Voltage Frequency

	_
$3 \times 380 / 400 / 420 \text{Vac} \pm 10^{\circ}$	%
50 ± 60 Hz	

Output Technical Data

Voltage Maximum current Ripple Protection fuse

24 Vdc ± 3%
see selection guide on the top
< 2%
external (not furnished)

General Technical Data

Max. operating temperature
Protection degree
Safety standards
Surge immunity
Connection terminals
Housing material
Approximative weight
Mounting information
Mounting rail
standard EN 50.022
standard EN 50.035

40 °C
IP 00
EN 60742, EN 60204
32 V with varistor
terminal blocks 4 mm² (2)
metallic
see selection guide on the top
on the panell (1)





17012 - albissola marina (SV) - via delle industrie, 129 - Italy tel. 019.40.02.81 - fax 019.40.02.82.80 internet: http://www.cabur.it E-mail: info@cabur.it

20080 - milano zibido s.g. - via zibido, 2 - Italy tel. 02.900.05.031 - tel. fax 02.900.05.032 E-mail: milano@cabur.it