

Universal power supply single-two phase Super Wide Range CSW Series

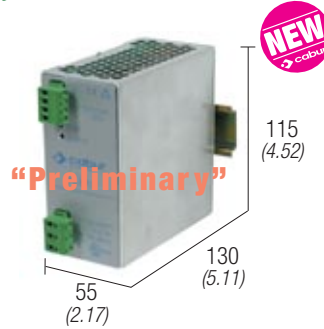
- 90-550 Vac Super Wide Range input single and two phase
- High efficiency and low dissipated power
- > 14 A output current peak for 0.5 s for starting-up heavy loads and fuses selectivity
- Short circuit, overload, over temperature, input / output overvoltage protection
- High reliability and immunity against overvoltages due to failures on AC line

NOTES

Dimensions indicated on drawings and photos, are overall dimensions, are inclusive of external components such as terminal blocks and Din-rail clamps.

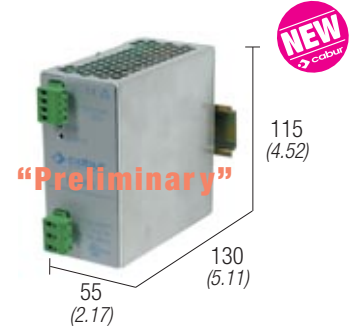
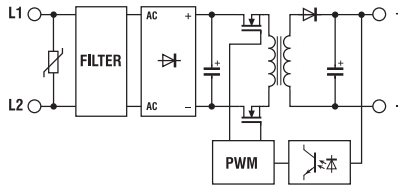
(1) Like the standard version but with the relay for failure contact inside mounted, available upon request.

(2) Available on September 2005



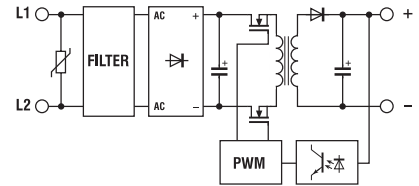
24 Vdc 3.2 A @ 45°C

BLOCK DIAGRAM



24 Vdc 5 A @ 45°C

BLOCK DIAGRAM



APPLICATIONS

With 90-550 Vac input they have a super wide range input, single and double phase with electronic regulation. These power supplies are suitable for single phase 100-120-230-240 Vac and 208-400-500 Vac feeding the power supply input with two phases of three phase networks, reducing installation costs and space.

The devices comply with IEC and EN EMC Standards for Industrial applications without any external filter. Engineering has been focused on achieving a high efficiency to reduce energy consumption and operating temperature of the components.

The overtemperature protection prevents failures even in case of overload along with high ambient temperature.

Output is adjustable and overvoltage protected. The housings assure a high ventilation of internal components, compact dimensions and a IP20 protection degree according to IEC529 Std.

High reliability

When powered by single phase lines 120-230 Vac coming from three phase networks with neutral, they cannot be damaged by overvoltages due to failure (eg. a short circuit between one phase and neutral or PE conductors) or due to feeding mistakes, thus improving operating reliability of the power supply and thus of the entire system.

VERSIONS

Standard
With failure contact

INPUT TECHNICAL DATA

Rated voltage
Frequency
Current @ Iout max
Inrush current
Power factor
Protection fuse

OUTPUT TECHNICAL DATA

Voltage
Maximum current
Continuous current
Load regulation
Ripple @ rated U-I output
Hold up time
Overload/short circuit protection

Output signal Standard version
 "P" version

Parallel connection
Redundant parallel connection

APPROVALS

GENERAL TECHNICAL DATA

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

Mounting rail type
according to IEC60715/TH35-7.5

CSW75C

(2) Cod. XCSW75C
(1)

185 – 550 Vac (single-phase and two-phase)
47 – 63 Hz
1.1–0.7 A @ 120–230 Vac / 0.35–0.5 A @ 400–550 Vac
< 15 A
> 0.65
2 x T 2 A - external

24–27.5 Vdc adjustable
4.5 A overload limit / 14 A peak 0.5 s
3.2 A @ 45°C
< 1 %
≤ 50 mVpp
> 20 ms
Hiccup 1.5 circuit, auto reset
Over temperature protection

–
SPDT 2 A / 250 Vac
possible
possible with external Oring diode



> 87% @ 400 Vac
13 W
–20 ... +60°C, over 45°C reduce 0.05 A x °C
3 kVac / 60 s
2 kVac / 60 s
0.5 kVac / 60 s
IP 20
EN 60950, IEC950, UL 508c
EN 50081-2, EN 50082-1, EN61000-3-2
EN61000-4-2, EN61000-4-4, EN 61000-4-5 liv. 4
2.5 mm², screw type pluggable
Aluminium
600 g (21.1 oz)
Vertical on rail, allow 10 mm spacing between adjacent components

PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB

CSW120C

(2) Cod. XCSW120C
(1)

185 – 550 Vac (single-phase and two-phase)
47 – 63 Hz
1.8–1.1 A @ 120–230 Vac / 0.55–0.5 A @ 400–550 Vac
< 20 A
> 0.65
2 x T 3.15 A - external

24–27.5 Vdc adjustable
7 A overload limit / 15 A peak 0.5 s
5 A @ 45°C
< 1 %
≤ 50 mVpp
> 20 ms
Hiccup 1.4 circuit, auto reset
Over temperature protection

–
SPDT 2 A / 250 Vac
possible
possible with external Oring diode



> 88% @ 400 Vac
18 W
–20 ... +60°C, over 45°C reduce 0.1 A x °C
3 kVac / 60 s
2 kVac / 60 s
0.5 kVac / 60 s
IP 20
EN 60950, IEC950, UL 508c
EN 50081-2, EN 50082-1, EN61000-3-2
EN61000-4-2, EN61000-4-4, EN 61000-4-5 liv. 4
2.5 mm², screw type pluggable
Aluminium
700 g (24.5 oz)
Vertical on rail, allow 10 mm spacing between adjacent components

PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB