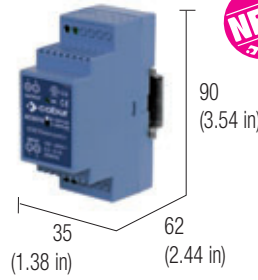


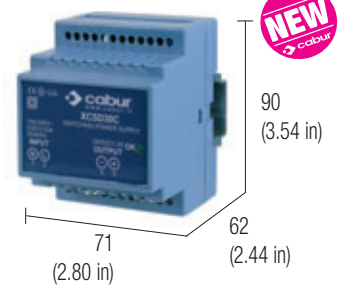
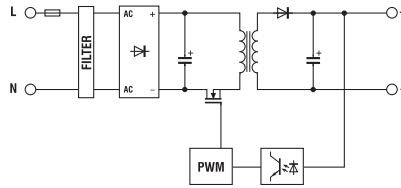
# Single-phase switching power supply 120-230 Vac regulated output 24 Vdc

- Single-phase input 90...264 Vac and DC 100...370 Vdc
- Short circuit, overload, over temperature, input / output overvoltage protection
- Isolation Class 2, no grounding needed
- Designed for use with SELV and PELV circuitry



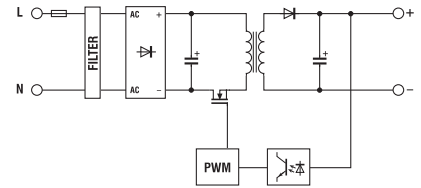
**24 Vdc 0.6 A @ 50°C - 15 W**

### BLOCK DIAGRAM



**24 Vdc 1.25 A @ 50°C - 30 W**

### BLOCK DIAGRAM



### NOTES

The height dimension includes 35 mm DIN rail  
(1) Not available

### APPLICATIONS

With 120-230 Vac input range, these power supplies are designed to operate worldwide. The devices comply with IEC and EN EMC Standards for Building automation applications without any external filter.

The design of these power supplies was focused on achieving high efficiency operation, thereby reducing energy consumption and operating temperature of the components. This high efficiency design also provides for a +20% power boost at an operating temperature of 45°C, without exceeding the standard temperature limits and guaranteeing safety and reliability.

Short-circuit, overload and over temperature protection are set to give +150% of the rated current to feed heavy loads and to handle start-up currents. The over temperature protection prevents failure of the power supply in the event of a long overload duration with a high ambient temperature. Output is overvoltage protected. The housing design assures maximum ventilation of internal components, space saving dimensions and an IP20 protection degree according to IEC529 Std.

### VERSIONS

Standard  
With failure contact

### INPUT TECHNICAL DATA

Rated voltage  
Frequency  
Current @ Iout max.  
Inrush current  
Power factor  
Protection fuse  
External circuit breaker

### 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  
Output / ground isolation  
Protection degree  
Standard / approvals  
EMC Standards  
Connection terminal  
Housing material  
Approx. weight  
Mounting information  
Mounting rail type according to IEC60715/TH35-7.5

### TYPE / Cat. No.

**CSD15C** Cat. No. XCSD15C  
(1)

**120-230 Vac** (range 90...264 Vac / 100...370 Vdc)  
47...63 Hz  
0.3 A @ 120 Vac / 0.16 A @ 230 Vac ±10%  
< 5 A  
> 0.6  
internal: T 1 A replaceable  
3 A with C curve

**24 Vdc ± 2%**  
1.08 A overload limit  
**0.6 A @ 50°C**  
< 1%  
≤ 30 mVpp  
> 20 ms @ 230 Vac full load  
hiccup circuit, auto reset / over temperature protection  
green LED power OK



>85% @ 120 Vac / >87% @ 230 Vac  
2 W max  
-20...+60°C, with over temperature protection  
3 kVac / 60 s  
class 2 without PE connection  
class 2 without PE connection  
IP 20 IEC529, EN60529  
EN50178, EN61558, EN60950, UL508  
EN61000-6-2, EN61000-6-4, EN55011, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11  
2.5 mm<sup>2</sup> screw type (24-12 AWG)

vertical on rail, allow 10 mm spacing between adjacent components  
**PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB**

### TYPE / Cat. No.

**CSD30C** Cat. No. XCSD30C  
(1)

**120-230 Vac** (range 90...264 Vac / 100...370 Vdc)  
47...63 Hz  
0.55 A @ 120 Vac / 0.28 A @ 230 Vac ±10%  
< 13 A  
> 0.6  
internal: T 2 A replaceable  
3 A with C curve

**24 Vdc ± 2%**  
1.6 A overload limit, 4 A (peak)  
**1.2 A @ 50°C**  
< 1%  
≤ 50 mVpp  
> 60 ms @ 230 Vac full load  
hiccup circuit, auto reset / over temperature protection  
green LED power OK



> 85% @ 120 Vac / >87% @ 230 Vac  
4.3 W max  
-20...+60°C, with over temperature protection  
3 kVac / 60 s  
class 2 without PE connection  
class 2 without PE connection  
IP 20 IEC529, EN60529  
EN50178, EN61558, EN60950, UL508  
EN61000-6-2, EN61000-6-4, EN55011, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11  
2.5 mm<sup>2</sup> screw type (24-12 AWG)

vertical on rail, allow 10 mm spacing between adjacent components  
**PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB**