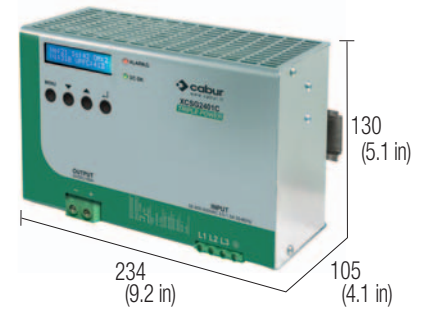


3-phase switching power supply 400-500 Vac output power 2400 W

- 3-phase input 340...550 Vac or 2-phase with derating
- Short circuit, overload, over temperature, input and output overvoltage protections
- High outrush current to guarantee downstream overcurrent protections selectivity and to start-up heavy loads
- High efficiency and low dissipated power
- Suitable for applications in SELV and PELV circuits
- Input protected by ASSIL circuit (Surge Suppressor and Inrush Limiter)



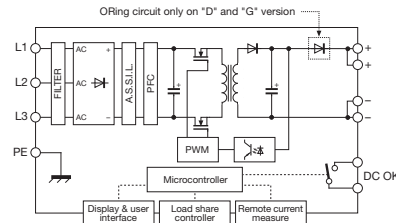
UL pending



NOTES

- The depth dimension includes the DIN rail clamp.
 (3) Over 45°C (113°F) apply a derating of about 40 W/°C
 (4) For this peak current, the output voltage does not drop more than 10% of the nominal value, but the current value, provided by the power supply also depends on the total line resistance.

BLOCK DIAGRAM



Special version for DC motors

VERSIONS
Output 12-15-24 Vdc 100 A redundant version
Output 24-48 Vdc 50 A redundant version

Cod. XCSG2401C	Cod. XCSG2401D
CSG2401C	CSG2401D

APPLICATIONS

Series CSG2401 has an internal microprocessor that controls the many functions of the power supply, which can be programmed thanks to a user-friendly menu activated by 4 buttons on the front and shown on the front display.

Front display: during normal operation, this shows the output voltage value and current used by the load; during programming, it allows for the choice of the various functions available.

Input protection: the input circuit has been designed to avoid the most common problems seen in 3-phase networks. It therefore has:

- 1) a special ASSIL (Active Surge Suppressor and Inrush Limiter) circuit to protect it against overvoltage in accordance with VDE0160;
- 2) a PFC circuit failure (latched shutdown) circuit;
- 3) a system for controlling lack of phase that automatically reduces output power;
- 4) an auto-restart switch-off system in the event of overvoltage and undervoltage.

Output protection: limit current can be selected as between 10% and 100% of rated current; protection type against overload and short circuit can be chosen from:

- 1) hiccup autoreset with limit current, equal to 150% of rated current and ON/OFF time equal to 5 secs./10 secs. (values can be altered manually);
- 2) constant power.

Output signals: in addition to the "DC OK" and "FAULT" LEDs, the device also has:

- 1) an analogue signal 0...10V or 4...20mA that provides an indication of current used by the load;
- 2) a programmable alarm contact able to signal and record the exceeding of the various limits to a memory: output voltage, input current, output overload, overtemperature and other parameters that can be defined by programming.

Additional functions: the following functions are also available:

- 1) battery charger: the acid lead battery charging function can be selected;
- 2) remote sensing (sense): this allows for the monitoring and compensation of voltage drops on long power supply lines;
- 3) remote switch-off: the power supply can be switched off and disabled from a remote position;
- 4) auxiliary voltage: auxiliary 12 Vdc is also available, regardless of the main output voltage status;
- 5) temperature control: by connecting an external sensor (NTC), the battery charge temperature can be controlled;
- 6) communication port: by means of an RS232 communication device, the power supply can be piloted and monitored from a remote position.

INPUT TECHNICAL DATA
Input rated voltage
Frequency
Current @ Iout max. (Uin 400 / 500 Vac)
Inrush peak current
Power factor
Internal protection fuse
External protection on AC line

3x 400-500 Vac (range 340...550 Vac)
47...63 Hz
4.2 A / 3.5 A
< 2 A (with active inrush current limiter)
> 0.92
—
circuit breaker: 3x 10 A C characteristic - fuse: 3x T10 A

OUTPUT TECHNICAL DATA
Output rated voltage
Output adjustable range
Continuous current
Overload limit
Short circuit peak current
Load regulation
Ripple @ nominal ratings
Hold up time (Uin 400 / 500 Vac)
Overload / short circuit protections
Status display
Alarm contact threshold
Parallel connection
Redundant parallel connection

12-15-24 Vdc	24-48 Vdc
11.5...29 Vdc	23...56 Vdc
100 A @ 45°C (3)	50 A @ 45°C (3)
150 A for >5 s with Uout >90% Un (4)	75 A for >5 s with Uout >90% Un (4)
>150 A for 5 s (4)	>75 A for 5 s (4)
< 1%	< 1%
≤ 200 mVpp	≤ 200 mVpp
>10 ms / >10 ms	>10 ms / >10 ms
programmable (see on right side)	
"DC OK" green LED / "DC OK" alarm contact / "Overload" red LED / LCD display	
programmable (see on right side)	
possible	
possible	

GENERAL TECHNICAL DATA
Efficiency (Uin 400 / 500 Vac)
Dissipated power (Uin 400 / 500 Vac)
Operating temperature range
Input/output isolation
Input/ground isolation
Output/ground isolation
Standard/approvals
EMC Standards
MTBF @ 25°C @ nominal ratings
Overvoltage category/Pollution degree
Protection degree
Connection terminal
Housing material
Approx. weight
Mounting information

>92% / >92%	>93% / >93%
200 W / 200 W	180 W / 180 W
-20...+60°C, con derating oltre 45°C / protezione termica (3)	
3 kVac / 60 s SELV output (5)	
1.5 kVac / 60 s	
0.5 kVac / 60 s	
EN60950, IEC950	
EN 55011, EN 61000-3-2, EN61000-4-5	
Surge immunity Level IV, VDE0160	
>500'000 h secondo SN 29500 / >150'000 h secondo MIL Std. HDBK 217F	
II / 2	
IP 20 IEC529, EN60529	
4-6 mm² fixed screw type	
aluminium	
2,8 kg (98,76 oz)	
vertical on rail, allow 60 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
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CORRECTION: Rif. art. XCSG2401D - Output adjustable range: 23...56 Vdc