

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)

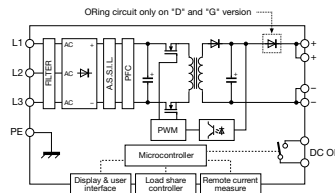
UL pending



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	Cod. XCSG2401C	Cod. XCSG2401D	APPLICATIONS
Output 12-15-24 Vdc 100 A redundant version	CSG2401C	CSG2401D	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.
Output 24-48 Vdc 50 A redundant version			
INPUT TECHNICAL DATA	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	12-15-24 Vdc 11.5...29 Vdc 100 A @ 45°C (3) 150 A for >5 s with Uout >90% Un (4) >150 A for 5 s (4) < 1% ≤ 200 mVpp >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)	24-48 Vdc 23...59 Vdc 50 A @ 45°C (3) 75 A for >5 s with Uout >90% Un (4) >75 A for 5 s (4) < 1% ≤ 200 mVpp >10 ms / >10 ms programmable (see on right side)	
GENERAL TECHNICAL DATA	Efficiency (Uin 400 / 500 Vac) >92% / >92% >93% / >93% Dissipated power (Uin 400 / 500 Vac) 200 W / 200 W 180 W / 180 W Operating temperature range -20...+60°C, con derating oltre 45°C / protezione termica (3) Input/output isolation 3 kVac / 60 s SELV output (5) Input/ground isolation 1.5 kVac / 60 s Output/ground isolation 0.5 kVac / 60 s Standard/approvals EN60950, IEC950 EMC Standards 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 MTBF @ 25°C @ nominal ratings Overvoltage category/Pollution degree II / 2 Protection degree IP 20 IEC529, EN60529 Connection terminal 4-6 mm² fixed screw type Housing material aluminium Approx. weight 2,8 kg (98,76 oz) Mounting information vertical on rail, allow 60 mm spacing between adjacent components		
MOUNTING ACCESSORIES	PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB —		
Mounting rail type according to IEC60715/TH35-7.5			
Mounting rail type according to IEC60715/G32			

CORRECTION: Rif. art. XCSG2401D - Output adjustable range: 23...56 Vdc