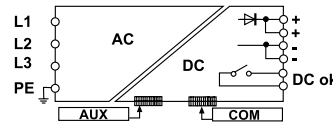
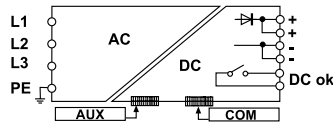


- 3-phase 400-500 Vac input
- Short circuit, overload, input and output overvoltage protections
- Over temperature protection
- Suitable for applications that require high reliability and performance
- Smart and programmable alarm contact
- High overload capability to ensure the protections selectivity and start-up of heavy loads

**NOTE**

Please refer to the datasheet for more details  
Overcurrent protection can be set to Hiccup or constant current mode, the maximum current supplied depends by the line resistance



**APPLICATIONS**

Series CSG2401 has an internal micro-processor 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 PFC circuit failure (latched shut-down) circuit
- 2) a system for controlling lack of phase that automatically reduces output power
- 3) 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 auto reset with limit current, equal to 150% of rated current and ON/OFF time can be altered;
- 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, over temperature and other parameters that can be defined by programming.

**Additional functions:**

- 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) 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.

CODE	XCSG2401C	XCSG2401D
<b>TYPE</b>	CSG2401C	CSG2401D
<b>INPUT TECHNICAL DATA</b>		
Input rated voltage	3x 400-500 Vac	3x 400-500 Vac
Input voltage AC	340...550 Vac	340...550 Vac
Input voltage DC	—	—
Frequency	47...63 Hz	47...63 Hz
Current consumption	4.2 A (400 Vac) / 3.5 A (500 Vac)	4.2 A (400 Vac) / 3.5 A (500 Vac)
Inrush peak current	10 A (with active limitation circuit)	10 A (with active limitation circuit)
Power factor	> 0.92	> 0.92
Internal protection fuse	—	—
External protection on AC line	MCB: C-10 A / Fuse: T-10 A	MCB: C-10 A / Fuse: T-10 A
<b>OUTPUT TECHNICAL DATA</b>		
Output rated voltage	12-24 Vdc ±1%	24-48 Vdc ±1%
Output adjustable range	11.5...29 Vdc	23...56 Vdc
Continuous current	100 A at 45°C	50 A at 45°C
Overload limiting	150 A for >5 s	75 A for >5 s
Short circuit peak current	150 A for 5 s	75 A for 5 s
Ripple @ nominal ratings	200 mVpp	200 mVpp
Hold up time	10 ms (400 Vac) / 10 ms (500 Vac)	10 ms (400 Vac) / 10 ms (500 Vac)
Status indication	LED "DC OK" / LED "Alarm" / Display	LED "DC OK" / LED "Alarm" / Display
Alarm contact	dry contact, max. 1A @ 24 Vdc (programmable)	dry contact, max. 1A @ 24 Vdc (programmable)
Parallel connection	possible	possible
Redundant parallel connection	already fitted with internal ORing diode	already fitted with internal ORing diode
<b>GENERAL TECHNICAL DATA</b>		
Efficiency	92% (400 Vac) / 92% (500 Vac)	93% (400 Vac) / 93% (500 Vac)
Dissipated power	200 W (400 Vac) / 200 W (500 Vac)	180 W (400 Vac) / 180 W (500 Vac)
Operating temperature range	-20...+60°C (derating -40 W >45°C)	-20...+60°C (derating -40 W >45°C)
Input / output isolation	3 kVac / 60 s (SELV output)	3 kVac / 60 s (SELV output)
Input / ground isolation	1.5 kVac / 60 s	1.5 kVac / 60 s
Output / ground isolation	0.5 kVac / 60 s	0.5 kVac / 60 s
Standard / approvals	EN 60950-1	EN 60950-1
EMC Standards	EN 61000-6-2, EN 61000-6-4	EN 61000-6-2, EN 61000-6-4
Overvoltage category / Pollution degree	II / 2	II / 2
Protection degree	IP 20	IP 20
Connection terminal IN/OUT	4 mm <sup>2</sup> / 35 mm <sup>2</sup>	4 mm <sup>2</sup> / 35 mm <sup>2</sup>
Housing material	aluminium	aluminium
Dimension	234x105x130 mm	234x105x130 mm
Approximate weight	2.8 Kg	2.8 Kg
Mounting information	vertical on a rail, 60 mm from adjacent components	vertical on a rail, 60 mm from adjacent components
<b>APPROVALS</b>		
<b>ACCESSORIES</b>		
Mounting rail (IEC60715/TH35-7.5)	PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB	PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB
Mounting rail (IEC60715/TH35-15)	PR/3/PP, PR/3/PP/ZB, PR/3/PA, PR/3/PA/ZB	PR/3/PP, PR/3/PP/ZB, PR/3/PA, PR/3/PA/ZB
Marking tag	TAP207A, TAP128A, TAP178A, TAP209A	TAP207A, TAP128A, TAP178A, TAP209A