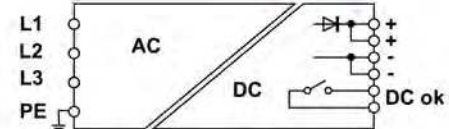
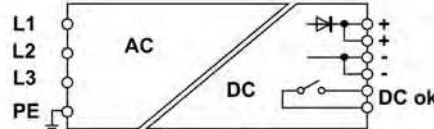




- 3-phase 400-500 Vac input or 2-phase with derating
- Short circuit, overload, input and output overvoltage protections
- Over temperature protection
- Suitable for applications that require high reliability and performance
- Smart alarm contact, signals when output voltage drops more than 10%
- High overload capability to ensure the protections selectivity and start-up of heavy loads



NOTE

Please refer to the datasheet for more details
Above overcurrent limit, the protection starts cycling in ON/OFF mode (hiccup autoreset), the maximum current supplied depends by the line resistance

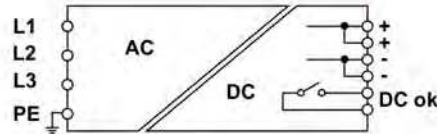
| CODE | CSG960D | XCSG960D | CSG960G | XCSG960G |
|---|--|----------|--|----------|
| TYPE | CSG960D | XCSG960D | CSG960G | XCSG960G |
| INPUT TECHNICAL DATA | | | | |
| Input rated voltage | 3x 400-500 Vac | | 3x 400-500 Vac | |
| Input voltage AC | 340...550 Vac | | 340...550 Vac | |
| Input voltage DC | — | | — | |
| Frequency | 47...63 Hz | | 47...63 Hz | |
| Current consumption | 2.2 A (400 Vac) / 1.1 A (500 Vac) | | 2.2 A (400 Vac) / 1.1 A (500 Vac) | |
| Inrush peak current | 20 A | | 20 A | |
| Power factor | > 0.65 | | > 0.65 | |
| Internal protection fuse | — | | — | |
| External protection on AC line | MCB: C-10 A / Fuse: T-10 A | | MCB: C-10 A / Fuse: T-10 A | |
| OUTPUT TECHNICAL DATA | | | | |
| Output rated voltage | 48 Vdc ±1% | | 72 Vdc ±1% | |
| Output adjustable range | 45...55 Vdc | | 72...85 Vdc | |
| Continuous current | 20 A at 50°C | | 13.3 A at 50°C | |
| Overload limiting | 23 A for >5 s | | 17 A for >5 s | |
| Short circuit peak current | 40 A for 5 s | | 27 A for 5 s | |
| Ripple @ nominal ratings | 100 mVpp | | 100 mVpp | |
| Hold up time | 10 ms (400 Vac) / 15 ms (500 Vac) | | 15 ms (400 Vac) / 18 ms (500 Vac) | |
| Status indication | LED "DC OK" / LED "Alarm" | | LED "DC OK" / LED "Alarm" | |
| Alarm contact | dry contact, max. 1A @ 24 Vdc (Uout >43.2 Vdc) | | dry contact, max. 1A @ 24 Vdc (Uout >68.4 Vdc) | |
| Parallel connection | possible | | possible | |
| Redundant parallel connection | already fitted with internal ORing diode | | already fitted with internal ORing diode | |
| GENERAL TECHNICAL DATA | | | | |
| Efficiency | 92% (400 Vac) / 92% (500 Vac) | | 94% (400 Vac) / 94% (500 Vac) | |
| Dissipated power | 80 W (400 Vac) / 80 W (500 Vac) | | 60 W (400 Vac) / 60 W (500 Vac) | |
| Operating temperature range | -20...+60°C (derating -18 W >45°C) | | -20...+60°C (derating -18 W >45°C) | |
| Input / output isolation | 3 kVac / 60 s (SELV output) | | 3 kVac / 60 s (no SELV output) | |
| Input / ground isolation | 2 kVac / 60 s | | 2 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 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4 | | EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4 | |
| Overvoltage category / Pollution degree | II / 2 | | II / 2 | |
| Protection degree | IP 20 | | IP 20 | |
| Connection terminal IN/OUT | 4 mm ² / 10 mm ² | | 4 mm ² / 10 mm ² | |
| Housing material | aluminium | | aluminium | |
| Dimension | 80x139x127 mm | | 80x139x127 mm | |
| Approximate weight | 1.2 kg | | 1.2 kg | |
| Mounting information | vertical on a rail, 10 mm from adjacent components | | vertical on a rail, 10 mm from adjacent components | |
| APPROVALS | CE  | | CE  | |
| ACCESSORIES | | | | |
| 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 | |



- 3-phase 400-500 Vac input or 2-phase with derating
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NOTE

Please refer to the datasheet for more details
Above overcurrent limit, the protection starts cycling in ON/OFF mode (hiccup autoreset), the maximum current supplied depends by the line resistance



| CODE | XCSG960C |
|---|---|
| TYPE | CSG960C |
| INPUT TECHNICAL DATA | |
| Input rated voltage | 3x 400-500 Vac |
| Input voltage AC | 340...550 Vac |
| Input voltage DC | — |
| Frequency | 47...63 Hz |
| Current consumption | 2.2 A (400 Vac) / 1.1 A (500 Vac) |
| Inrush peak current | 20 A |
| Power factor | > 0.65 |
| Internal protection fuse | — |
| External protection on AC line | MCB: C-10 A / Fuse: T-10 A |
| OUTPUT TECHNICAL DATA | |
| Output rated voltage | 24 Vdc ±1% |
| Output adjustable range | 24...28 Vdc |
| Continuous current | 40 A at 50°C |
| Overload limiting | 44 A for >5 s |
| Short circuit peak current | 63 A for 5 s |
| Ripple @ nominal ratings | 100 mVpp |
| Hold up time | 10 ms (400 Vac) / 15 ms (500 Vac) |
| Status indication | LED "DC OK" / LED "Alarm" |
| Alarm contact | dry contact, max. 1A @ 24 Vdc (Uout > 21.6 Vdc) |
| Parallel connection | possible |
| Redundant parallel connection | possible with external ORing diode |
| GENERAL TECHNICAL DATA | |
| Efficiency | 92% (400 Vac) / 92% (500 Vac) |
| Dissipated power | 80 W (400 Vac) / 80 W (500 Vac) |
| Operating temperature range | -20...+60°C (derating -18 W >45°C) |
| Input / output isolation | 3 kVac / 60 s (SELV output) |
| Input / ground isolation | 2 kVac / 60 s |
| Output / ground isolation | 0.5 kVac / 60 s |
| Standard / approvals | EN 60950-1 |
| EMC Standards | EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4 |
| Overvoltage category / Pollution degree | II / 2 |
| Protection degree | IP 20 |
| Connection terminal IN/OUT | 4 mm ² / 10 mm ² |
| Housing material | aluminium |
| Dimension | 80x139x127 mm |
| Approximate weight | 1.2 kg |
| Mounting information | vertical on a rail, 10 mm from adjacent components |
| APPROVALS |   |
| ACCESSORIES | |
| Mounting rail (IEC60715/TH35-7.5) | 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 |
| Marking tag | TAP207A, TAP126A, TAP178A, TAP209A |