ASI
Your Source for Automation Components

Single and 2-phase Switching Power Supply, Universal Power

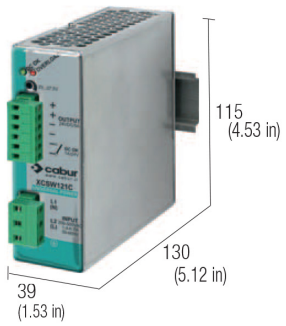
1 or 2-phase switching power supply 230-400-500 Vac output power 120 W

- Single-phase and 2-phase input 185...550 Vac
- High reliability and immunity against over voltage due to failures on AC line
- 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

UL LISTED E203601

CE

NEW



NOTES

The depth dimension includes the terminal blocks and the DIN clamp.

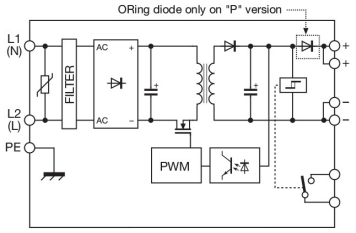
(1) Version available upon request; for information call our sales department, local agent or representative

(2) 550 Vdc max for UL508

(3) Over 50°C (122°F) apply a derating of about 3 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



VERSIONS	Cod. XCSW121C	Cod. XCSW121B	Cod. XCSW121DP
Output 24 Vdc 5 A	**CSW121C**		
Output 12…15 Vdc 7 A		**CSW121B**	
Output 48 Vdc 2.5 A redundant version			**CSW121DP (1)**
Output 72 Vdc 1.5 A redundant version			
INPUT TECHNICAL DATA			
Input rated voltage	1-2x **230-400-500 Vac** (range 187…550 Vac / 270…725 Vdc) (2)		
Frequency	47...63 Hz		
Current @ Iout max. (Uin 230 / 400 Vac)	1.1 A / 0.55 A		
Inrush peak current	< 20 A		
Power factor	> 0.65		
Internal protection fuse	–		
External protection on AC line	circuit breaker: 2x 6 A C characteristic - fuse: 2x T 4 A		
OUTPUT TECHNICAL DATA			
Output rated voltage	**24 Vdc**	**12…15 Vdc**	**48 Vdc**
Output adjustable range	24...27.5 Vdc	12…15 Vdc	45...55 Vdc
Continuous current	**5 A** (3)	**8 A** @ 12 Vdc / **7 A** @ 15 Vdc	**2.5 A** (3)
Overload limit	7.5 A per >30 s with Uout >90% Un	10 A for >30 s with Uout >90% Un	3,75 A per >30 s with Uout >90% Un (4)
Short circuit peak current	14 A for 0.4 s (4)	20 A per 0.4 s (4)	14 A for 0.5 s (4)
Load regulation	< 1%	< 1%	< 1%
Ripple @ nominal ratings	≤ 100 mVpp	≤ 100 mVpp	≤ 100 mVpp
Hold up time (Uin 230 / 400 Vac)	>20 ms / >80 ms	>20 ms / >80 ms	>20 ms / >80 ms
Overload / short circuit protections	hiccup at the overload limit with auto reset / over temperature protection		
Status display	"DC OK" green LED / "DC OK" alarm contact/ "Overload" red LED		
Alarm contact threshold	21.6 Vdc	10.8 Vdc	68 Vdc
Parallel connection	possible	possible	possibile
Redundant parallel connection	possible with external ORing diode	possible with external ORing diode	prepared with diode internal ORing
GENERAL TECHNICAL DATA			
Efficiency (Uin 230 / 400 Vac)	>86% / >88%	>84% / >86%	>86% / >86%
Dissipated power (Uin 230 / 400 Vac)	20 W / 16 W	20 W / 17 W	20 W / 20 W
Operating temperature range	–20...+60°C, with derating over 50°C / over temperature protection (3)		
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	EN50178, EN61558, EN60950, IEC950, UL508		
EMC Standards	EN61000-6-2, EN61000-6-4, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11		
MTBF @ 25°C @ nominal ratings	>500'000 h acc. to SN 29500 / >150'000 h acc. to MIL Std. HDBK 217F		
Overvoltage category/Pollution degree	II / 2		
Protection degree	IP 20 IEC 529, EN60529		
Connection terminal	2.5 mm² pluggable screw type		
Housing material	aluminium and stainless steel		
Approx. weight	600 g (21.18 oz)		
Mounting information	vertical on rail, allow 10 mm spacing between adjacent components		
MOUNTING ACCESSORIES			
Mounting rail type according to IEC60715/TH35-7.5	**PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB**		
Mounting rail type according to IEC60715/G32	—		