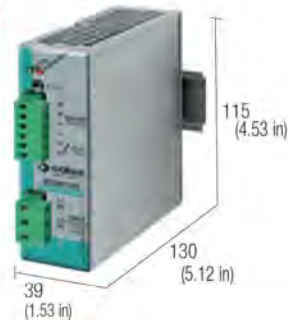


## 1 or 2-phase switching power supply 230-400-500 Vac output power 120 W

- 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

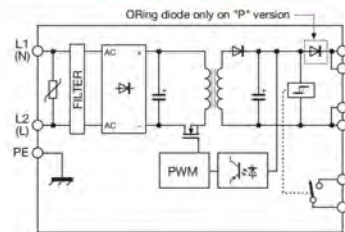


### NOTES

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	1-2x 230-400-500 Vac (range 187...550 Vac / 270...725 Vdc) (2)		
Frequency	47...63 Hz		
Current @ lout 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	<b>24 Vdc</b>	<b>12...15 Vdc</b>	<b>48 Vdc</b>
Output rated voltage	24...27.5 Vdc	12...15 Vdc	45...55 Vdc
Output adjustable range			
Continuous current	<b>5 A (3)</b>	<b>8 A @ 12 Vdc / 7 A @ 15 Vdc</b>	<b>2.5 A (3)</b>
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 possible	10.8 Vdc possible	68 Vdc possible
Parallel connection	possible with external ORing diode	possible with external ORing diode	prepared with diode internal ORing
Redundant parallel connection			
GENERAL TECHNICAL DATA	>86% / >88%		
Efficiency (Uin 230 / 400 Vac)	>84% / >86%		
Dissipated power (Uin 230 / 400 Vac)	>86% / >86%		
Operating temperature range	20 W / 16 W		
Input/output isolation	-20...+60°C, with derating over 50°C / over temperature protection (3)		
Input/ground isolation	3 kVac / 60 s SELV output		
Output/ground isolation	2 kVac / 60 s		
Standard/approvals	0.5 kVac / 60 s		
EMC Standards	EN50178, EN61558, EN60950, IEC950, UL508		
MTBF @ 25°C @ nominal ratings	EN61000-6-2, EN61000-6-4, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11		
Overvoltage category/Pollution degree	>500'000 h acc. to SN 29500 / >150'000 h acc. to MIL Std. HDBK 217F		
Protection degree	II / 2		
Connection terminal	IP 20 IEC 529, EN60529		
Housing material	2.5 mm² pluggable screw type		
Approx. weight	aluminium and stainless steel		
Mounting information	600 g (21.18 oz)		
	vertical on rail, allow 10 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			