

Источник питания со встроенным зарядным устройством серии CSC



Switching power supply with integrated battery charger

- Suitable for 12 Vdc loads and batteries
- Suitable for lead batteries
- Suitable for charging batteries while feeding loads
- Battery protection circuit
- "Deep discharge" battery protection
- Status display LED and failure contact



NOTES	BLOCK DIAGRAM		APPLICATIONS
<p>The depth dimension includes the terminal blocks and the DIN clamp.</p> <p>(2) With 100...127 Vdc input voltage, constant output power and $T_a > 45^\circ\text{C}$, the output current must be derated by 25%</p> <p>(3) In addition to the current load, the device supplies about 0.8 A for battery charging</p> <p>(4) Over 50°C (122°F) apply a derating $-0.13\text{ A}/^\circ\text{C}$, max 60°C</p>			
VERSIONS	Cod. XCSC120B	Cod. XCSC120C	
Output 12 Vdc 5 A	CSC120B		
Output 24 Vdc 5 A		CSC120C	
INPUT TECHNICAL DATA	120–230 Vac (range 90...264 Vac / 100...370 Vdc) (2)		
Input rated voltage	47...63 Hz		
Frequency	2.0 A / 1.1 A \pm 10%		
Current @ nominal lout (Uin 120 /230 Vac)	< 20 A		
Inrush peak current	> 0.6		
Power factor	T 3.15 A replaceable		
Internal protection fuse	circuit breaker: 4 A - C characteristic - fuse: T 3.15 A		
External protection on AC line			
OUTPUT TECHNICAL DATA	12.5...15.5 Vdc	23...27.5 Vdc	
Output voltage with operating power supply	12...14.4 Vdc	24...26.2 Vdc	
Output voltage with batteries	7 A @ 50°C (3)	5 A @ 50°C (3)	
Continuous current	>11 A for >30 s	>8 A for >30 s	
Overload limit	>18 A for >50 ms	>12 A for >50 ms	
Short circuit peak current	< 1%	< 1%	
Load regulation	80 mVpp	80 mVpp	
Ripple @ nominal ratings	>24 ms / >80 ms	>17 ms / >72 ms	
Hold up time @ In (Uin 120 / 230 Vac)	with operating power supply: hiccup at the overload limit with auto reset		
Overload / short circuit protections	non operating power supply: auto resettable electronic fuse against battery short circuit		
Alarm signals	with non operating power supply: threshold-relay against battery deep discharge		
Max. charging current	"PSU OK" green LED / failure contact / "BATTERY" red LED		
	0.8 A (suitable for sealed lead batteries up to 15 Ah)		
GENERAL TECHNICAL DATA	>86% / >90%	>90%	
Efficiency (Uin 120 / 230 Vac)	21 W / 13 W	< 13 W	
Dissipated power (Uin 120 / 230 Vac)	-20...+60°C, with derating over 50°C / over temperature protection (4)		
Operating temperature range	1.5 kVac / 60 s SELV output		
Input/output isolation	1.5 kVac / 60 s		
Input/ground isolation	0.5 kVac / 60 s		
Output/ground isolation	IEC950, EN60950		
Standard/approvals	EN55011, EN61000-6-1		
EMC Standards	>500'000 h acc. to SN 29500 / >150'000 h acc. to MIL Std. HDBK 217F		
MTBF @ 25°C @ nominal ratings	II / 2		
Overvoltage category/Pollution degree	IP 20 IEC 529 EN60529		
Protection degree	2.5 mm ² pluggable screw type		
Connection terminal	aluminium		
Housing material	500 g (17.65 oz)		
Approx. weight	vertical on rail, allow 10 mm spacing between adjacent components		
Mounting information			
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			