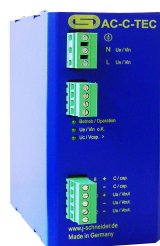


# Technical Datasheet

## AC C-TEC 1203-1



**J. Schneider**  
Elektrotechnik



**DC-UPS**  
**NCPA0724G10002**

### 1 Short description

The buffered DC power supply of the **AC C-TEC** series includes ultra-capacitors as energy storage inside the housing. During normal operation this capacitor is charged from AC-mains. The connected DC consumers are supplied as well from AC mains. In case of an interruption of the AC supply, the energy of the ultra-capacitor is released regulated. With a dc/dc converter the load is supplied from the capacitor until it is discharged. The backup time depends on the state of charge of the capacitor and the discharge current.

The power supply has the following characteristics:

- Maintenance-free because of long-life ultra-capacitors
- Mikrocontroller based charging and discharging of the ultra-capacitors
- Control of operation and status of charge with potential-free contacts and LED
- Capacity extension possible with external capacitor extension modules

### 2 Technical Data

Nominal input voltage	115 V ... 230 V AC ( $\pm 15\%$ )
Input voltage range for charging operation	97,8 V ... 264,5 V AC
Nominal frequency	47 Hz ... 63 Hz
Max. nominal input current	0,84 A @ 115 V AC 0,42 A @ 230 V AC
Max. inrush current	30 A / 2 ms
nominal output current Max.	3 A DC (at 0,94 kJ)
nominal output current at maximum energy	2 A DC (at 1,0 kJ)
Current limitation	1,05 ... 1,5 x $I_{Nenn}$
Nominal output voltage (in mains operation)	12,3 V DC $\pm 2\%$
Output voltage (in back-up operation)	11,5 V DC $\pm 2\%$
Energy	1 kJ
Max power loss ,worst-case'	12 W
efficiency	88% @ ( $U_e=230$ V AC; $U_a=24,3$ V DC; $I_a=I_{Nenn}$ )
Internal device protection	2 A (T), 250 V
Fuse DC-output circuit (external)	3,15 A (T)
Type of connection: input $U_e$	screw terminal max. 2,5 mm <sup>2</sup> 0,5-0,6 Nm
Type of connection: output $U_a$	screw terminal max. 2,5 mm <sup>2</sup> 0,5-0,6 Nm
Type of connection: message contact	screw terminal max. 2,5 mm <sup>2</sup> 0,5-0,6 Nm
Max. load message contact ( $U_e$ -OK <sup>1</sup> )	30 V/ 0,5 A potentialfree relay contact
Max. load message contact ( $U_c$ <sup>1</sup> )	30 V/ 0,5 A potentialfree relay contact
Protective system	IP20 u. EN 60529

<sup>1</sup> The message contacts are coupled with the LED display. The illumination of a LED effects the activation of the corresponding relay.

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Reg.-Nr. 2750

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Environmental temperature	-40 °C ... 60 °C
Storage temperature	-40 °C ... 60 °C
Rel. humidity	≤95% condensation not permissible
Max. mounting height (without load reduction)	2000 m ü. NN
Dimensions (H x W x D)	152,5 mm, 72 mm, 130 mm
weight	0,85 Kg

### 3 Norms and regulations

Terminal voltage	SELV / PELV according to EN 60950 EN 50178
Ermitted interference	EN 6100-3-2 EN 6100-3-3 class A EN 55011 class B EN 62040 -2
Noise immunity	EN 61000-6-2 EN 62040-2  EN 61000-4-2 (Static discharge ESD) 8kV/6kV EN 61000-4-3 (electromagnetic fields) 10V/m 27 – 1000MHz 3V/m 1400 - 2700MHz EN 61000-4-4 (fast transients / Burst) DC IN, DC OUT 2kV others 1kV EN 61000-4-5 (Stoßstrombelastung / Surge) DC IN 0.5kV EN 61000-4-6 (conducted noise immunity) 10V 150kHz – 80MHz EN 61000-4-11 (voltage interruptions) back-up with ultra capacitors
Total unit	EN 50178 EN 60950
	UL 508 / C22.2