Technical Datasheet
C-*TEC* 2420-8

J. Schneider Elektrotechnik

DC-UPS
NCPA0747G01003
(**C**-*TEC* 2420-8)

1 Short description

The DC-UPS of the series **C**-*TEC* includes ultra-capacitors as energy storage inside the housing. During normal operation the capacitors are charged by an external regulated DC power supply. In case of an interruption of the DC supply, the energy of the ultra-capacitors is released regulated. The load is supplied by the back-up module until the ultra-capacitors are discharged. The back-up time depends on the state of charge of the capacitors and on the discharge current

The DC-UPS has the following characteristics:

- Maintenance-free because of long-life ultra-capacitors
- Microcontroller based charging and discharging of the ultra-capacitors
- Control of operation and status of charge with potential-free contacts and LED
- Compatible to *TEC***Control**-Software
- Communication with an IPC via USB or RS232 cable possible
- Parameterizable via USB interface
- Capacity extension possible with external capacitor extension modules
- Cyclic capacitor test during mains operation
- Wide temperature range -40° C up to 60° C

2 Technical Data

Input	
Nominal input voltage	24 V DC
Input voltage range	23,4 V – 29 V DC
Min nominal input voltage for charging operation	23,4 V DC
Max. nominal input current	20 A DC
Fusing input	FK2 40A
Output	
Nominal output voltage (in mains operation)	Input voltage – 0,5 V
Nominal output voltage (in back-up operation)	23,2 V DC
Max. nominal output current	20,0 A
Max. power loss 'worst-case'	40 W (Ua = 25,0 V DC 100% load)
Efficiency	>90%
Energy	8 kJ
Back-up time	344 s @ 1 A / 12 s @ 20 A
General Information	
Max. load message contact: Mains operation, U_c >, Fault	30 V DC max. 0,5 A
Max. load message contact Shutdown	24 V DC (6 – 40 V DC)
Leackage current	< 3,5 mA