

Data sheet

C-TEC 2410



C-TEC 2410

NCPA0606G01*** / NCPA0607G01***
NCPA0608G01*** / NCPA0609G01***

1 Brief description

The DC UPS of the **C-TEC** series has inside of the housing ultracaps as energy storage.

In mains operation, the ultracaps will be charged by an external controlled DC power supply.

In the event of interruption of DC power supply, the energy of the ultracaps will be released in a controlled way. The load will be fed until the **C-TEC** is discharged.

The buffer time depends on the output current and the energy of the ultracaps.

The **C-TEC 2410** has the following properties:

- Maintenance-free due to long-life ultracapacitors
- Microcontroller-based charging and discharging of the ultracapacitors
- Operating and charging status monitoring via LEDs
- Superfast charging due to active charging current control
- IPC management due to shutdown function triggered by time and output current
- Numerous customer-specific parameterisation options via USB interface

2 Standards and regulations

Total device	2011/65/EU with 2015/863/EU (RoHS) 1907/2006/EC (REACH) 2009/125/EC (Ecodesign) EN 61010-1 / EN 61010-2-201 EN 62368-1 UL 508 / C22.2 No. 107.1
EMC	2014/30/EU (EMC Directive) EN 62040-2 Limit Value Class C1 EN 55011 + A1 Limit Value Class B Group 1 EN 61000-6-2 EN 61000-6-4

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Elektrotechnik

3 Technical data

Input	
Rated input voltage	12 V DC / 24 V DC (SELV / PELV)
Input voltage range for charging mode	
Rated input voltage 12 V DC (decoupled / not decoupled)	11,9 - 17,4 V DC $\pm 0\%$ / 11,4 - 17,4 V DC $\pm 0\%$
Rated input voltage 24 V DC (decoupled / not decoupled)	23,9 - 27 V DC $\pm 0\%$ / 23,4 - 27 V DC $\pm 0\%$
Rated input current	10 A @ (Ue = 24,0 V DC, Ua = 23,2 V DC, Ia = 9,9 A)
Switch-on current	≤ 35 A / 2 ms
Charging current	Max. 7 A; active charging current control,
Rated input power	240 W @ (Ue = 24,0 V DC, Ua = 23,2 V DC, Ia = 10 A)
Output	
Rated output voltage	12 V DC / 24 V DC
Output voltage in buffer mode (system voltage)*	
Rated input voltage 12 V DC	11,2 V DC $\pm 4\%$
Rated input voltage 24 V DC	23,2 V DC $\pm 2\%$
Rated output current	10 A
Current limiting in buffer mode	11,25 A $\pm 0,75$ A
Limit current monitoring in buffer mode through shutdown	10,3 A $\pm 0,1$ A after 1,5 s
Energy content (typical)	NCPA0607G01
	NCPA0606G01
	NCPA0608G01
	NCPA0609G01
Efficiency	95,1 % @ (Ue = 24,0 V DC, Ua = 23,2 V DC, Ia = 10 A)
Internal consumption in buffer mode	1,7 W
Short circuit withstand capability	Mains mode Buffer mode
Conditional short-circuit proof Short-circuit proof	
Fusing	
Fusing – output	External
General	
Protection rating of the enclosure	IP20
Overvoltage category	II
Pollution degree	2
Dimensions (H x W x D)	NCPA0607G01 / 27.6 kJ (kWs)
	NCPA0606G01 / 13.4 kJ (kWs)
	NCPA0608G01 / 5.8 kJ (kWs)
	NCPA0609G01 / 2.0 kJ (kWs)
Weight	170 mm x 189 mm x 147.9 mm
	172,4 mm x 116 mm x 143 mm
	172,4 mm x 116 mm x 143 mm
	172 mm x 70 mm x 143 mm
Operating temperature / storage temperature	NCPA0607G01 / 27.6 kJ (kWs)
	NCPA0606G01 / 13.4 kJ (kWs)
	NCPA0608G01 / 5.8 kJ (kWs)
	NCPA0609G01 / 2.0 kJ (kWs)
Relative humidity	-40 - 60 °C
Max. elevation above sea level (without capacity reduction)	$\leq 95\%$
Max. elevation above sea level (without capacity reduction)	2000 m

*Basic settings