



AC CAPTEC 2401 / 1202

*NCPA1906G01****

*NCPA1906G10****

1 Brief description

The DC UPS in the **AC CAPTEC** model series features ultracapacitors as energy storage devices inside the enclosure and an integrated line protection of the output. The **AC CAPTEC** is charged in grid mode by an internal, controlled DC power supply unit and the connected consumers are powered.

Where the DC supply is interrupted, the energy from the ultracapacitors is released under control. The **AC CAPTEC** powers the consumers until the **AC CAPTEC** is discharged. The buffer time depends on the state of charge of the ultracapacitors and the discharge current.

In grid mode, power pulse currents of 10 A (120 ms) are possible with charged ultracapacitors. The power pulse current can selectively trigger a miniature circuit breaker even if several consumers are connected.

The **AC CAPTEC** has the following properties:

- Controlled power supply unit with safe disconnect
- Wide input voltage range 80...264 V AC
- Wide temperature range -40°C...+60°C
- Maintenance-free due to long-life ultracapacitors
- Microcontroller-based charging and discharging of the ultracapacitors
- Operating and state of charge monitoring via LEDs and signalling contacts

2 Standards and regulations

Overall 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 55011 + A1 Limit Value Class B Group 1 EN 61000-6-1 EN 61000-6-3 Limit Value Class B EN 62040-2 Limit Value Class C1
Capacity HF transformer to ensure safe disconnect primary/secondary	EN 60601-1 2xMOPP (EN 61558-1)

3 Technical data

Input		
Rated input voltage		110 V AC / 230 V AC +15 % / -10 %
Input voltage range		80...264 V AC ± 0 %
Frequency		50 / 60 Hz ± 3 Hz
Rated input current	AC CAPTEC 2401 AC CAPTEC 1202	0,2 A @ (U _e = 230 V AC, U _a = 24 V DC, I _a = 1 A) 0,2 A @ (U _e = 230 V AC, U _a = 12 V DC, I _a = 2 A)
Switch-on current		25 A @ 115 V AC / 45 A @ 230 V AC
Rated input power	AC CAPTEC 2401 AC CAPTEC 1202	28 W @ (U _e = 230 V AC, U _a = 24 V DC, I _a = 1 A) 27 W @ (U _e = 230 V AC, U _a = 12 V DC, I _a = 2 A)
Output		
Rated output voltage	AC CAPTEC 2401 AC CAPTEC 1202	24 V DC (SELV / PELV) 12 V DC (SELV / PELV)
Output voltage in buffer mode	AC CAPTEC 2401 AC CAPTEC 1202	23,3 V DC ± 2 % 11,4 V DC ± 2 %
Residual ripple	AC CAPTEC 2401 AC CAPTEC 1202	200 mVpp 120 mVpp
Rated output current	AC CAPTEC 2401 AC CAPTEC 1202	1 A 2 A
Current limiting		See Operating Instructions chapter 5 Overload / Impuls current / Short-circuit in mains operations
Energy content (typical)		600 J (Ws) @ (U _a = 22,7 V DC, I _a = 1 A)
Power loss (internal consumption)	AC CAPTEC 2401 AC CAPTEC 1202	4 W @ (U _e = 230 V AC, U _a = 24 V DC, I _a = 1 A) 3 W @ (U _e = 230 V AC, U _a = 12 V DC, I _a = 2 A)
Internal consumption in buffer mode		1 W
Short circuit withstand capability		See Operating Instructions chapter 5 Overload / Impuls current / Short-circuit in mains operations
Fusing		
Fusing output		5 A T
General		
Protection rating of the enclosure		IP20
Overvoltage category		III
Pollution degree		2
Dimensions (H x W x D)		91 mm x 107 mm x 62 mm
Weight		0,3 kg
Operating temperature / storage temperature		-40 - 60 °C
Operating temperature UL tested		+10...60 °C
Relative humidity		≤ 90 % non-condensing
Max. elevation above sea level		2000 m