



Capacitor based UPS

NCPA1906G01001

1 Short description

The **AC CAPTEC 2401** is a regulated power supply with integrated ultracapacitors and integrated line protection. In addition to the regulated supply of the load, the integrated ultra-capacitors will be charged within a few seconds under mains operation.

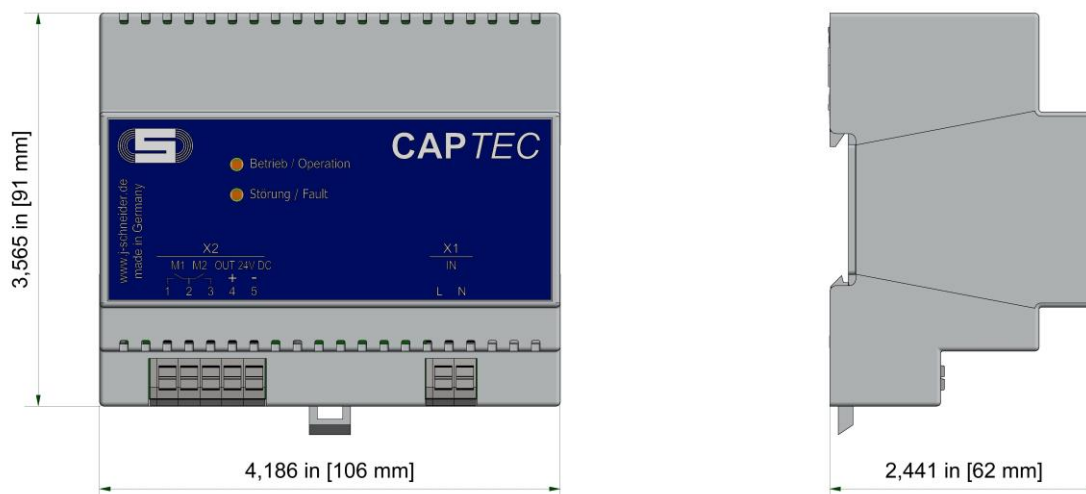
In the event of a power failure, the **AC CAPTEC 2401** guarantees uninterrupted and safe supply of the DC voltage according to the stored energy in the capacitors.

Peak current (pulsed) up to 10 A for 10 ms are possible with charged capacitors.

The **AC CAPTEC 2401** has the following features:

- Regulated power supply with protective separation
- Wide range voltage input 80 – 264 V AC
- Wide operating temperature -40°C to +60°C
- Maintenance-free thanks to long-life capacitors
- Microcontroller-based charging and discharging of the ultra-capacitors
- Operating and charge status monitoring via LEDs and signaling contacts

2 Dimensions



3 Standards

Overall unit	2011/65/EU mit 2015/863/EU (RoHS) 1907/2006/EG (REACH) 2009/125/EG (Eco design) EN 61010-1 / EN 61010-2-201 EN 62368-1 UL 508 / C22.2 No. 107.1 pending
EMC	2014/30/EU (EMC- Directive) EN 55011+ A1 Limit class B Groupe 1 EN 61000-6-2 EN 61000-6-4
Power HF transformer to ensure safe isolation primary/secondary ?	EN 60601-1 2xMOPP (EN61558-1)

4 Technical details

Input	
Nominal input voltage	110/230 V AC +15 % /-10%
Frequency	50 / 60 Hz ±3 Hz
Nominal input current	0,5A @ (U _e = 24 V DC, U _a = 230V AC, I _a = 1 A)
Inrush current	25 A at 115 V 45 A 230 V
Nominal input power	33 W @ (U _e = 230 V DC, U _a = 24 V DC, I _a = 1 A)
Output	
Output voltage in buffer mode	23,3 V DC ±2 %
ripple voltage	200mVp-p?
Nominal out put current	1 A
Current limit	1,3A
Energy content (typicaly)	500J @ (U _a = 23,3 V DC, I _a = 1 A)
Efficiency	89%
Power losses (own consumption)	3,3 W
Over voltage protection	32,4V
Fuse	
Input fuse	F 2A
General	
IP protection	IP20
Over voltage category	III
Degree of pollution	2
Dimensions (H x W x D)	91 mm x 106 mm x 62 mm
Weight	
Operating and storage temperature	-40 °C...+60 °C
UL tested	+10 °C...+60 °C
Relative humidity	≤90 % non-condensing
Max. hight over sea level (without de-rating)	2000 m