

C-TEC 1225 P

Ultra capacitor buffered power supply / DC UPS



J. Schneider
Elektrotechnik



Technical Datasheet NCPA1301G30001

Brief description

The DC buffer module of the **C-TEC 1225 P** series is equipped with integrated ultra capacitors for accumulating energy. During normal operation this capacitor is charged by an internal charger which is supplied by an external, regulated DC power supply. If the DC supply is interrupted, energy of the ultra capacitors is released in a unregulated process (12 to 10 V DC). The load is supplied by the buffer module up to the voltage is ≤ 10 V. The buffering time depends on the state of charge of the capacitor and discharging current. As further function the **C-TEC 1225 P** can provide more current for a certain time.

The DC-UPS shows the following features:

- Maintenance-free due to durable ultra capacitors
- Microcontroller based charging and discharging of the ultra capacitors
- Input voltage-signal via potential-free contact and LED
- Short overload possible
- Vibration secured wiring via spring loaded plugs
- Wide working temperature range -40°C up to 60°C

J. Schneider Elektrotechnik GmbH

Helmholtzstraße13, 77652 Offenburg · Postfach 2327, 77613 Offenburg · Werner-von-Siemens-Straße 12, 77656 Offenburg
Tel +49 (0) 781 206 0 · Fax +49 (0) 781 253 18 · info@j-schneider.de · www.j-schneider.de · Amtsgericht Freiburg HRB 470458
Geschäftsführer: Dipl.-Betriebswirtin (BA) Bettina Schneider · Dipl.-Wirt.-Ing. (FH) Rolf Anti · UST-Ident-Nr. DE142532740

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Subject to technical
modifications!



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Technical Data

Nominal input voltage	12 V DC $\pm 10\%$
Min. Nominal input voltage for Charging mode	11,3 V DC
Max. nominal input current	28,5 A DC
Max. Inrush surge current	66 A
Max. charging current	3,5 A DC
Nominal output voltage (mains operation)	12 V DC $\pm 10\%$
Nominal output voltage (Buffer operation)	12,25 V ... 10 V DC $\pm 2\%$
Max. nominal output current	25 A DC
Short-circuit current	200 A
Overload capacity (nominal value)	50 A for 4 ms
Max. Power loss 'worst-case'	10 W (Charging Mode max. 68 s), 20 W (Discharging Mode) 0,9 W (Standby)
Efficiency	>90%
Parallel connection	Nein
Series connection	Nein
Energy content	0,46 kJ
Max. load digitale output	30 V DC / 1 A
Buffer time	34 sec @ 1 A / 0,5 sec @ 25 A
Degree of protection	IP20
Operating temperature	-40 ... 60 °C
Storage temperature	-40 ... 60 °C
Relative humidity	95% non-condensating
Max. altitude (whitout derating)	2000 m ü. above sealevel
Dimensions (H x W x D)	123 mm x 65 mm x 145 mm
Weight	0,7 kg

Terminals

Charge-/Discharge connector 'Input/Output'	Spring clamps (push in) solid 0,2 - 10,0 mm ² stranded 0,2 – 6 mm ² stranded, with ferrule with plastic sleeve 0,25 – 4 mm ² Stripping length 8 mm stranded, with ferrule without plastic sleeve 0,25 – 6 mm ² Stripping length 8 mm AWG 24-8
Potential-free contact '13/14'	30 VDC / 0,5 A Spring clamps (push in) solid 0,2 - 4,0 mm ² stranded 0,2 – 2,5 mm ² stranded, with ferrule with plastic sleeve 0,25 – 1,5 mm ² Stripping length 8 mm stranded, with ferrule without plastic sleeve 0,25 – 2,5 mm ² Stripping length 8 mm AWG 24-12

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Standards and Regulations

Overall Unit	EN 50178 / EN 60950
Emitted interference EN 61000-6-4	EN61000-6-4 Emission standard for industrial environments EN55011 Industrials, scientific and medical (ISM) radio-frequency equipment
Interference immunity EN 61000-6-2	EN61000-4-2 (Electrostatic discharge ESD) Air discharge 8kV / contact discharge 6kV EN61000-4-3 (Electro-magnetic fields) 10 V / m 80 - 2000 MHz 3 V / m 1400 - 2700 MHz EN61000-4-4 (Fast transients / burst) DC IN, DC OUT 2 kV others 1 kV EN61000-4-5 (Surge DC IN 0.5kV) EN61000-4-6 (conducted interference immunity) 10 V 150 kHz - 80 MHz
Vibrationstest, sine Shocktest refer	EN 60068-2-6 und EN 600068-2-27
Degree of pollution	II

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