

# C-TEC 4815 P

Ultra capacitor buffered power supply / DC UPS



J. Schneider  
Elektrotechnik



## Technical Datasheet

NCPA1301G20001

### Brief description

The DC buffer module of the **C-TEC 4815 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 an unregulated process (49 to 38 V DC). The load is supplied by the buffer module up to the voltage is  $\leq 10$  V. The buffering time depends on the state of charge of the capacitor and the discharging current. As further function the **C-TEC 4815 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  $-40^{\circ}\text{C}$  till  $60^{\circ}\text{C}$

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Nominal input voltage	48 V DC $\pm$ 10%
Min. Nominal input voltage for Charging mode	44 V DC
Max. nominal input current	18 A DC
Max. Inrush surge current	66 A
Max. charging current	3 A DC
Nominal output voltage (mains operation)	48 V DC $\pm$ 10%
Nominal output voltage (Buffer operation)	48 V ... 38 V DC $\pm$ 2 %
Max. nominal output current	15 A DC
Short-circuit current	200 A
Overload capacity (nominal value)	65 A für 14 ms, 200 A für 1,5 ms
Max. Power loss 'worst-case'	10 W (Charging Mode max. 40 s), 20 W (Discharging Mode) 2 W (Standby)
Efficiency	>90%
Parallel connection	No
Series connection	No
Energy content	1 kJ
Max. load digitale output	60 V DC / 1 A
Buffer time	25 sec @ 1 A / 0,6 sec @ 15 A
Degree of protection	IP20
Operating temperature	-40 ... 60 °C
Storage temperature	-40 ... 60 °C
Relative humidity	95% non-condensing
Max. altitude (without derating)	2000 m ü. above sealevel
Dimensions (H x W x D)	123 mm x 65 mm x 145 mm
Weight	0,8 kg