



DC-UPS

NBUA0523G01003

1 Short description

The battery backed up DC power supply in the **AKKUTEC** range uses the standby-parallel principle of operation and, in conjunction with a lead accumulator, ensures that the DC power supply is reliably maintained in the case of a mains power failure.

The power supply has the following features:

- battery charger system with I/U charging characteristic
- Microcontroller-based battery management
- Temperature compensation for charging voltage by means of external sensor module (optional module)

2 Norms and regulations

EMC	EN 55011 / 1998 class EN 61000-3-2 und EN 61000-3-3 class A EN 50082-2 1995
Overall unit	EN 50178 / EN 61010-1 / EN 61010-2-201 EN 62368-1

3 Technical Data

Input	
Nominal input voltage	24 V DC -10 % +20 % (21,6...28,8 V DC)
Nominal input current	3,7 A @ (U _e = 24 V DC, U _a = 26,4 V DC, I _a = 2,85 A)
Inrush current	≤ 80 A/200 μs
Nominal input power	87 W @ (U _e = 24 V DC, U _a = 26,4 V DC, I _a = 2,85 A)
Output	
Nominal output voltage	24VDC
Output voltage (without temperature tracking)	19,8...26,8 V DC ±0,4 %
Output voltage (with temperature tracking)	19,8...27,8 V DC ±0,4 %
Final charging voltage with / without temperature tracking	26,8 V DC ±0,4 % / 26,4...27,8 V DC ±0,4 %
Load shedding	19,8 V DC ±0,4 %
Nominal output current	2,85 A

Technical Datasheet

AKKUTEC 2403 DC



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Elektrotechnik

Self-consumption current (in back-up operation)	95 mA
Max. power loss ‚worst-case‘	13 W @ (U _e = 24 V DC, U _a = 26,4 V DC, I _a = 2,85 A)
Efficiency	85 % @ (U _e = 24 V DC, U _a = 26,4 V DC, I _a = 2,85 A)
Charging characteristics	IU-characteristics DIN 41773-1
Fusing	
Internal device protection	4 A (T), 250 V
Fusing battery circuit (external)	3 A (T), 250 V
Fusing output (external)	3 A (T), 250 V
Pre-fusing	5 A (T), 250 V
In general	
Protective system of the housing	IP20
Over voltage category	II
Degree of pollution	2
Battery type	Lead accumulator*
Dimensions (H x W x D) standard device	92,5 mm x 60 mm x 116 mm
Weight standard device (without batteries)	0,6 kg
Operational temperature	0 °C ... +40 °C
Storage temperature	0 °C ... +50 °C
Relative humidity	≤95 % non-condensing
Max. height above sea level (without load reduction)	2000 m