



### DC-UPS

#### NBUA0523G01003

### 1 Short description

The battery backed up DC power supply in the **AKKUTEK** 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

<b>Input</b>	
Nominal input voltage	24 V DC -10 % +20 % (21,6...28,8 V DC)
Nominal input current	3,7 A @ (U <sub>e</sub> = 24 V DC, U <sub>a</sub> = 26,4 V DC, I <sub>a</sub> = 2,85 A)
Inrush current	≤ 80 A/200 μs
Nominal input power	87 W @ (U <sub>e</sub> = 24 V DC, U <sub>a</sub> = 26,4 V DC, I <sub>a</sub> = 2,85 A)
<b>Output</b>	
Nominal output voltage	24 V DC
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

## AKKUTEK 2403 DC



Self-consumption current (in back-up operation)	95 mA
Max. power loss ,worst-case'	13 W @ (U <sub>e</sub> = 24 V DC, U <sub>a</sub> = 26,4 V DC, I <sub>a</sub> = 2,85 A)
efficiency	85 % @ (U <sub>e</sub> = 24 V DC, U <sub>a</sub> = 26,4 V DC, I <sub>a</sub> = 2,85 A)
Charging characteristics	IU-characteristics DIN 41773-1
<b>Fusing</b>	
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
<b>In general</b>	
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