



DC-UPS

NBPA0347G01007

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:

- Switched primary, switched power supply with I/V charging characteristic
- Active power factor correction (PFC)
- Microcontroller-based battery management
- Temperature compensation for charging voltage by means of external sensor module (optional module)
- Display and control panel for switch cupboard door installation or surface mounting (option)

2 Norms and Regulations

Safety of power transformers, power supply units and similar Particular requirements for transformers for switch mode power supplies	EN61558 2-17 (VDE 0570 2-17)
Optocouplers for protective separation against electric shock, requirements - tests	VDE 0884
EMC	EN55011../..1998../..Class A Group 1 EN 61000-3-2 and EN61000-3-3 / Class A EN50082-2/03.95
This power supply is only accredited for industrial class A!	
Environmental testing	EN 60068-2-6
Overall unit	EN 50178 EN 61010-1 / EN 61010-2-201 EN 62368-1

Technical Datasheet

AKKUTEK 4810



J. Schneider
Elektrotechnik

3 Technical Data

Input	
Input voltage	230 V AC $\pm 15\%$ (196...265 V AC)
Frequency	47...63 Hz
Input current	2,6A@230VAC
Inrush current	≤ 65 A/3 ms
Nominal input power	585W@230VAC
Output	
Nominal output voltage	48VDC
Output voltage (without temperature tracking)	39,6...53,6 V DC $\pm 0,4\%$
Output voltage (with temperature tracking)	39,6...56,0 V DC $\pm 0,4\%$
Output voltage (boost charging)	57,2 V DC $\pm 0,4\%$
Final charging voltage with / without temperature tracking	53,6 V DC $\pm 0,4\%$ / 53,0...56,0 V DC $\pm 0,4\%$
Load shedding	39,6 V DC $\pm 0,4\%$
Nominal output current	10 A
Constant current limitation	1,05...1,1*I _{Nom}
Max. power loss ,worst-case	70 W
Efficiency	88 % @ (U _e = 230 V AC, U _a = 53,6 V DC, I _a = 20 A)
Charging characteristics	IU-characteristics DIN 41773-1
Fusing	
Internal device protection	5 A (T), 250 V
Fusing battery circuit (external)	10 A (T), 250 V
Fusing output (external)	10 A (T), 250 V
Pre-fusing (external)	10 A (T), 250 V
In general	
Protective system of the housing	IP20
Over voltage category	II
Degree of pollution	2
Battery type	Lead accumulators*
Dimensions (H x W x D) standard device	241 mm x 101 mm x 244 mm
Weight standard device (without batteries)	2,9 kg
Operational temperature	0°C...+40°C
Storage temperature	0°C...+50°C
Relative humidity	$\leq 95\%$ non-condensing
Max. height above sea level (without load reduction)	2000 m