



DC-UPS

NBPA0616G01005

1 Short description

The battery backed 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 back-up time depends on the state of charge of the accumulator and the discharge current.

The power supply has the following features:

- battery charger system with I/U charging characteristics
- micro controller-based battery management
- Temperature compensation for charging voltage by means of external sensor module (optional module).
- USB interface with appropriate driver unit and **TECControl** Software of J. Schneider, message contacts may be controlled and a shut down/re-start can be effected.

2 Technical Data

nominal input voltage	115-230V AC
input voltage range	98-264V 115V – 15% - 230V + 15%
Eingangsfrequenz	47-63Hz
Nominal input current	1,4A - 115V AC 0,7A – 230V AC
max. inrush current	35A / 2ms
Output voltage (without battery)	53,6V DC $\pm 0,4\%$
Output voltage (with battery)	39,6V – 53,6V DC
Final charging voltage without temperature sensor:	53,6V DC $\pm 0,4\%$
Final charging voltage with Temp.-Sensor (optional)	54,0V DC bei 25 °C
Charging characteristics	I/U DIN 41773-1
Deep discharge protection and load rejection at	39,6V DC $\pm 0,4\%$
Nominal output current I_{ANom}	2,5A DC
Current limitations	1,05...1,1 x I_{ANom}
Battery type	Lead accumulator, maintenance-free

efficiency $U_a=26,8V$ DC, $I_a= I_{ANom}$ and $U_e=230V$ AC	typ. 88%
max. power loss 'worst-case'	31W
Leackage current	<3,5mA
Fusing input	250V 2,5A T (internal)
Fusing DC- output circuit (external, UL-248)	(5A ¹⁾) / 5A T
fusing battery circuit (external, UL-248)	(5A ¹⁾) / 5A T
Type of connection input 'mains'	Spring-type max. 2,5mm ²
Type of connection output 'U _a ', 'Batt'	Spring-type max. 2,5mm ²
Type of connection messages	Spring-type max. 1,5mm ²
Protective system	IP 20 u. EN 60529
weight	1kg
Storage temperature	0...50°C
Environmental temperature Recommended for battery	0 - 45°C 0 - 25°C
dimensions	160x75x150mm (HxWxD)

Technical Datasheet

AKKUTEC 4803

3 Normen und Vorschriften

power- HF- transmitter to ensure a safe separation primary / secondary	EN 61558 2-17 (VDE 0570 2-17)
opto coupler to ensure a safe separation primary / secondary	VDE 0884
emitted interference	EN 61000-3-2 and EN 61000-3-3 class A EN 55011 class B
interference resistance: EN 61000-6-2	EN61000-4-2 (static discharge ESD) (4kV) EN61000-4-3 (electromagnetic fields) (10V/m) EN61000-4-4 (fast transients / Burst) input (2kV) output (1kV) EN61000-4-5 (Surge) mains (2 / 4kV) output (0,5kV) EN61000-4-6 (conducted interference resistance) 10V, 150kHz – 80MHz EN61000-4-11 (voltage drops) back-up with accumulator
total unit	EN 50178 / EN 60950