



DC-UPS

NBPA0616G01005

1 Short description

The battery backed 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 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 ±0,4%
Output voltage (with battery)	39,6V – 53,6V DC
Final charging voltage without temperature sensor:	53,6V DC ±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 ±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



J. Schneider
Elektrotechnik

3 Norms and regulations

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	<table> <tr> <td>EN61000-4-2 (static discharge ESD)</td> <td>(4kV)</td> </tr> <tr> <td>EN61000-4-3 (electromagnetic fields)</td> <td>(10V/m)</td> </tr> <tr> <td>EN61000-4-4 (fast transients / Burst)</td> <td>input (2kV) output (1kV)</td> </tr> <tr> <td>EN61000-4-5 (Surge)</td> <td>mains (2 / 4kV) output (0,5kV)</td> </tr> <tr> <td>EN61000-4-6 (conducted interference resistance)</td> <td>10V, 150kHz – 80MHz</td> </tr> <tr> <td>EN61000-4-11 (voltage drops)</td> <td>back-up with accumulator</td> </tr> </table>	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
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												