



DC-UPS

NBPA0616G01006

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 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 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-11
total unit	EN 50178 / EN 62368-1 / EN 61010-1 / EN 61010-2-201
AKKUTEK 2405	UL508 / C22.2

3 Technical Data

Input	
Input voltage	115...230 V AC $\pm 15\%$ (98...264 V AC)
Frequency	47...63 Hz
Nominal input current	1,1 A @ 115 V AC / 0,6 A @ 230 V AC
Inrush current	≤ 35 A/2 ms
Nominal input power	126 W @ (U _e = 230 V AC, U _a = 13,4 V DC, I _a = 7,5 A)
Output	
Nominal output voltage	12 V DC
Output voltage (without temperature tracking)	9,9...13,4 V DC $\pm 0,4\%$
Output voltage (with temperature tracking)	9,9...13,5 V DC $\pm 0,4\%$
Final charging voltage without / with temperature tracking	13,4 V DC $\pm 0,4\%$ / 13,4...13,5 V DC $\pm 0,4$
Load shedding	9,9 V DC $\pm 0,4\%$
Nominal output current	7,5 A
Current self-consumption (in back-up operation)	95 mA
Power loss	20 W@ (U _e = 230 V AC, U _a = 13,4 V DC, I _a = 7,5 A)
efficiency	84,0 % @ (U _e = 230 V AC, U _a = 13,4 V DC, I _a = 7,5 A)
Charging characteristics	IU-characteristics DIN 41773-1
Fusing	
Per-fusing (internal)	2,5 A (T), 250 V
Fusing battery circuit (external)	FKS / FK2 10 A / 10 A T
Fusing output (external)	FKS / FK2 10 A / 10 A T
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 unit	160 mm x 75 mm x 150 mm
weight standard unit (without batteries)	1,5 kg
Operational temperature	0 °C...+45 °C
Storage temperature	0 °C ... +50 °C
Relative humidity	$\leq 95\%$ non-condensing
Max. height above sea level (without load reduction)	2000 m

*basic parameterization for VRLA lead accumulator (AGM, SLA)