



DC-UPS

NBPG1008G01***
VdS-Nummer G211063
9786-CPD-21076

1 Short Description

The accumulator buffered DC supply works according to the standby parallel principle and guarantees, in connection with a lead accumulator and for a certain amount of time, a safe backup operation of the DC supply in case of a mains failure. The overall output current is split up between consumer supply and lead accumulator charge.

The power supply is characterized by the following properties:

- Primary switched power supply with I/U charging characteristic
- Micro-controller supported lead accumulator management
- Temperature adjustment of the charging voltage by an external sensor

2 Technical specification

Nominal input voltage VdS approved	230 VAC ($\pm 15\%$) 230 VAC (-15% +10%)
Min. nominal input voltage for charging operation	195,5 V
Nominal frequency	47 ... 63 Hz
Power consumption	60VA
Max. nominal input current	0,3 A
Max. inrush current	35 A / 2ms
Max. nominal output current (Imax B)	1,6 A
Imax A related to battery	1,54A (@1,2Ah) 1,485A (@2,3Ah)
Nominal output voltage (in mains operation)	24 VDC $\pm 1\%$
Output voltage range (with temperature tracking)	20,4 ... 27,8 VDC $\pm 0,4\%$
Charging characteristics	I/U DIN41773
Deep discharge protection and load rejection	20,4 VDC $\pm 0,4\%$
Final charging voltage with temperature-sensor at 25°C	27,4 VDC $\pm 0,4\%$
Max power loss ,worst-case'	12 W
Efficiency	78%
Residual ripple	< 400 mVss
Internal device protection	4 A (T), 250V
Output fuse (internal)	2 x 1A FK2/FKS
Serial operation	no
Max. load message contact	30 VDC / 10mA, potentialfree semiconductor contact
Battery type	Pb-Accu
Back-up time	Battery specific
Protective system	IP30
Operational temperature	-5°C ... 40°C
Storage temperature	-5°C ... 50°C
Rel. humidity	$\leq 95\%$ non condensation
Max. mounting height (without load reduction)	2000 m above sea level
Dimensions (HxWxD)	202mm, 200mm, 84mm
weight	3,2 kg

Technical Datasheet

AKKUTEC 2401 VdS C



J. Schneider
Elektrotechnik

3 Norms and regulations

Power supplies for fire alarm systems are subject to rigorous regulations; the power supply unit of the fire alarm system is tested according to the European Product Standards EN 54-4 and VdS 2541. This power supply corresponds to EN 54-4 and VdS 2541.

EMC	EN 55011 limit class B EN 62040-2 limit class C1 EN 61000-3-2 EN 61000-3-3 EN 61000-6-2 EN 50082-2 EN 50130-4+A1+A2
Total Unit	EN 50178 EN 61010-1 / EN 61010-2-201 EN 62368-1 EN 54-4+A1+A2 VdS 2541
Degree of pollution	II