



DC-UPS

NBPG1711G01***

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 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 value class B EN 62040-2: limit value 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 54-4+A1:+A2 VDS 2541 EN 61010-1 / EN 61010-2-201 EN 62368-1
Degree of pollution	II

Technical Datasheet

AKKUTEC 2402 VdS C



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Elektrotechnik

3 Technical specification

Input	
Nominal input voltage	230 VAC +10% / -15%
Input voltage range	195,5...253VAC
Nominal frequency	47 ... 63 Hz
Power consumption	60VA
Max. nominal input current	0,3 A
Max. inrush current	35 A / 2ms
Output	
Max. nominal output current (I _{max b})	1,6 A
I _{max A} related to battery capacity	1,00A (@12Ah) 1,24A (@7Ah)
Nominal output voltage	24 VDC
Output voltage range of final charging voltage with temperature tracking (mains operation)	28,5 ... 26,5 VDC ±0,4% -5°C ... 50°C
Final charging voltage with temp.-sensor at 25°C	27,4 VDC ±0,4%
Output voltage range in back-up operation	28,5 ... 20,4 VDC ±0,4%
Deep discharge protection and load rejection	20,4 VDC ±0,4%
Charging characteristics	I/U DIN41773
Self-consumption in back-up operation	19,3mA
Max power loss ‚worst-case‘ efficiency	12 W 78%
Residual ripple	< 400 mVss
Parallel operation	no
Serial operation	no
Fusing	
Internal device protection (mains side)	4 A (T), 250V
Protection battery circuit	3 A FK2/FKS
Output fuse (internal)	2 x 1A / 1 x 2A FK2/FKS
General	
Battery type	7,2Ah / 12Ah, Pb-Akku
Back-up time	Depending on battery
Limit value for max. battery circuit resistance	750mΩ
Protective system	IP30
Operational temperature	-5°C ... 40°C
Storage temperature	-5°C ... 50°C
Rel. humidity	≤95% non condensation
Max. mounting height (without load reduction)	2000 m above sea level
dimensions (HxWxD)	289mm, 253mm, 129mm
weight	2,8 kg (without accumulators)