



DC-UPS

NBPG1008G01***

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 Data

Nominal input voltage	230 VAC ($\pm 15\%$)
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	1,6 A
Nominal output voltage (in mains operation)	24 VDC $\pm 1\%$
Output voltage range (with temperature tracking)	21,6 ... 27,8 VDC $\pm 0,4\%$
Overload capability	
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%
Derating	--
Residual ripple	< 100 mV eff.
Internal device protection	4 A (T), 250V
Protection battery circuit	2,5 A(T)
Parallel operation	no
Serial operation	no
Max. load message contact	30 VDC / 10mA, potentialfree semiconductor contact
Battery type	2,3Ah, Pb-Akku
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)	204mm, 200mm, 80mm
weight	3,2 Kg

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 value class B EN 62040-2, limit value class C1 EN 61000-3-2:2006 EN 61000-3-3:2006 EN 61000-6-2:2005 EN 50082-2:1995 EN 50130-4:1995+A1:2002+A2:2006
Overall unit	EN 50178:1998 EN 54-4:1997+A1:2002+A2:2006 To VDS 2541:1998
Environmental testings	
Degree of pollution	II