



### DC-UPS

**NBPA0812G01\*\*\***  
**VdS-Number G209167**  
**0786-CPD-20871**

#### 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 time interval, a safe upkeep 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:

- Switching power supply with I/U charging characteristic
- aktiv power factor correction (PFC)
- Micro-controller supported lead accumulator management
- RS232 for monitoring and parameterization

Temperature adjustment of the charging voltage by an external sensor

#### 1 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. The power supply is VdS approved and is listed under No.: G209167.

EMV	EN 55011, limit value class B EN 62040-2, limit value class C1 EN 61000-6-2 EN 61000-6-4 EN 50130-4+A1+A2
Overall unit	2014/30/EU+A1+A2 EN 50178 EN 54-4+A1+A2 EN 12101-10+B1 VdS 2541 VdS 2344
Optocoupler for guaranteeing a safe primary / secondary separation	EN 60747-5-1, fulfills SELV / PELV
Power HF-transmitter to ensure the safe separation of primary and secondary.	EN 61558 2-16, fulfills SELV / PELV

# Technical Datasheet

## AKKUTEK 2412 VdS C



**J. Schneider**  
Elektrotechnik

### 2 Technical Data

Nominal input voltage	230 V AC ( $\pm 15\%$ )
Input voltage range for charging operation	195.5 V ... 264.5 V
Nominal frequency	47 Hz ... 63 Hz
Power consumption	380 VA
Self current consumption	75 mA @ 24 V
Max. nominal input current	1.8 A
Max. inrush current	35 A / 2 ms
Max. nominal output current	12 A
Nominal output voltage (in mains operation)	24 V DC
Output voltage range (with temperature tracking)	26.4 V ... 28.6 V DC $\pm 0.4\%$
Charging characteristics	I/U DIN41773
Charging end voltage (without Temp.-Sensor)	26.4 V DC $\pm 0.4\%$
Deep discharge protection and load shedding	20.4 V DC $\pm 0.4\%$
Max power loss ,worst-case'	40 W
Efficiency	89% @ ( $U_e=230\text{ V}; U_a=26.4\text{ V DC}; I_a=I_{Nenn}$ )
Voltage ripple	< 150 mV eff.
Internal device protection	2.5 A (T), 250 V
Fuse DC-output circuit (external)	15 A(T)
Fuse DC-Battery circuit (external)	15 A(T)
Connection in parallel	Yes
Connection in series	Yes
Max. signal contact load (Mains-OK <sup>1</sup> )	30 V/ 0.5 A potential-free relay-contact
Max. signal contact load (Bat-OK <sup>1</sup> )	30 V/ 0.5 A potential-free relay-contact
Max. signal contact load (General Fault <sup>1</sup> )	30 V/ 0.5 A potentialfreier Relais-Kontakt
Max. signal voltage range (Shut-Down)	24 V DC (6-45 V DC) floating switching input
Accumulator type	Pb-accumulator, maintenance-free, max. 170 Ah
Back-up time	Accumulator specific
Protective system	IP31
Operating temperature	-10 °C ... 50 °C
Storage temperature	-10 °C ... 50 °C
Rel. Humidity	$\leq 95\%$ no condensation
Max. installation altitude	2000 m above sea level
Dimensions (HxWxD)	608 mm, 464 mm, 213 mm
Weight	12.5 Kg