

UPS – System

## Battery-buffered power supply

manufacturer: J. Schneider Elektrotechnik GmbH

type : **AKKUTEK 1203**

art.-No. : **NBPAQ33G1M13**



### Short description

The battery buffered DC power supply of the series **AKKUTEK** is working according the stand-by parallel mode and ensures in connection with a lead-acid accumulator a safe continuous DC power supply in case of mains failure.

The back-up time is depending from the state of charge of the accumulator and of the discharge current.

The power supply has the following features:

- Battery charger with I/U-charging characteristics
- Battery management by micro-controller
- Battery voltage tracking of the charging voltage by external sensor module (optional)

|  |   |
|--|---|
| Nominal input voltage  | 115 / 230 V AC +/-15%   |
| Nominal frequency  | 47 – 63, Hz   |
| System voltage   | 12 V DC   |
| <b>Output voltage</b><br>(depending of state of charge of the battery)<br>- without temperature sensor | 9,9 – 13,2 V DCV DC   |
| Nominal output current   | 2,85 A at 100% ED<br>current limiting at 1,1 x I Nenn   |
| Protective system  | IP 20   |
| Secure separation (safe separation between input and output)   | According to EN61558-2-17 (VDE 0570 2-17)   |
| Operational temperature  | 0 - 40 °C<br>optimal storage temperature for battery 20°C. Durin g storage charge battery each 6 month. |
| Short circuit protection   | Electronic, short-circuit-proof output  |
| Battery  | External  |
| Battery type   | Pb-Akku, maintenance free<br>Pb- Akku maintenance free (Option with modified characteristic curve)      |
| Battery fuse   | external  |
| Back-up time   | Depending on battery  |
| Charging characteristics   | I/U DIN 41773 part 1<br>Opt. Battery voltage tracking   |
| Charging current at 100% load  | 0.25 A  |
| Charging current at 0% load  | 2.85 A  |
| Deep discharge protection of the battery   | Load rejection at a battery voltage ≤ 9,9 V   |

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Amtsgericht Offenburg HRB 758



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Technische Änderungen vorbehalten!



LED-display

Ua green voltage is present at the output  
Net OK green input voltage is present

Battery OK green **expires at:**

-battery circuit interruption (battery fuse damaged)

-voltage in UPS operation < 10,8 V (battery low)

-battery temperature above 45°C

**LED is blinking at**

-battery low (damaged battery)

mains/UPS-operation 0,5 A /30 V DC

general error 0,5 A /30 V DC

As Shutdown software for PC

Abort of the UPS- operation

Potential free switch input

Switch level: 12 V DC (6-45 V DC)

Battery management via internal Microcontroller

Control battery circuit / battery fuse each 60 sec

Battery load test during mains operation (load of the battery with simultaneous voltage measurement each 24h)

Relais-outputs

Control input mass relation 24 V

Shut down terminal (emergency stop)

Battery management

Battery circuit control

Real Battery power control

EMC-regulation

EN 55011/03/91

EN 50082-1/1.92

EN 61000-4-2,3,4,5,6,11

EN 50178 EN 60950

Type of construction

module

connection

Spring type

Dimensions

60 x 92,5 x 116 mm (w x h x d)

Battery voltage tracking

With the temperature-sensor at the terminal strip IO-1 and 2 the final charging voltage is automatically adjusted according the environmental conditions (0-45 V). Over temperature at the batteries (above 45°C) is displayed and announced .

Temperatures above 20°C at the batteries cause a strong reduction of the life duration of the batteries

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