

**Uninterruptible Power Supply 24 VDC housing for surface mounting
for standby parallel operation
with battery monitoring and deep discharge protection**



Technical data of the standard version:

Input voltage: 85..264 V AC
 Battery pack: 12 VDC / 18 Ah
 Output voltage: 24 V in mains operation
 22,5 V in puffer mode
 Output current: max. 10 A
 Wall housing: WxHxD 300x400x155mm
 Back-up time: > 1 hr up to 10 hr:
 Deep discharge protection: yes
Battery monitoring: yes
Constant output voltage
 in case of emergency power: 22,5 V

In the event of a mains failure, a reliable emergency power supply for gas detection systems is essential, because this is the absolute event of a fault for gas appliances and the supply lines. In particular, by the stress of pressure drop and rebound it can occur particular in the case to leaks. Precisely for this reason does the legislature indicate their need.

The uninterruptible power supply is also essential, especially for heated sensors, since they lose their calibration during a power failure for a long time.

Operation of the UPS-B1:

The UPS-B1 available not only in normal operation enough electricity to supply the complete gas monitoring system, but in case of power failure including all sensors and alarms, and if necessary for the gas valves also.

The battery capacity can be transported from 7.5 Ah to 26 Ah.

In order that in case of the emergency power the UPS does not leads to failure, the battery is continuously monitored for their performance and also protected against deep discharge .

The separate power supply of UPS, as opposed to buffer B1 chargers provide enough current to charge the battery supply, despite a parallelsystem in no time.

The battery is a single battery. The safety advantage is, that it do not come to unnoticed unequal charges and therefore to quick failure of the system, as occurs in series-connected batteries often.

Furthermore, the output voltage is raised in case of emergency power at a voltage of at least 22.5 volts. It does not follow the discharging of the battery as with simple equipment and is therefore suitable for systems with long cable lengths alwas providing the necessary supply voltage.

The USV-B1 has been designed specifically for safety-related applications of gas detectors. It provides a central supply of the whole system and thereby saves multiples higher costs of decentralized supplies.

Safety note:



The batteries of all USV must be changed at regular intervals mandatory binding. This is done in direct analogy to the fire alarm systems (VDE 0833/1), the VDS - section 4.8 and the respective country-specific "Technical Inspection Regulations" at the latest every 4 years. The battery exchange must be also carried out much earlier at elevated ambient temperature, at least once a year.

Further versions:



USV-B1-BGT

**Emergency power supply
in a 19 "rack 3 HE/84TE
for control cabinet installation**

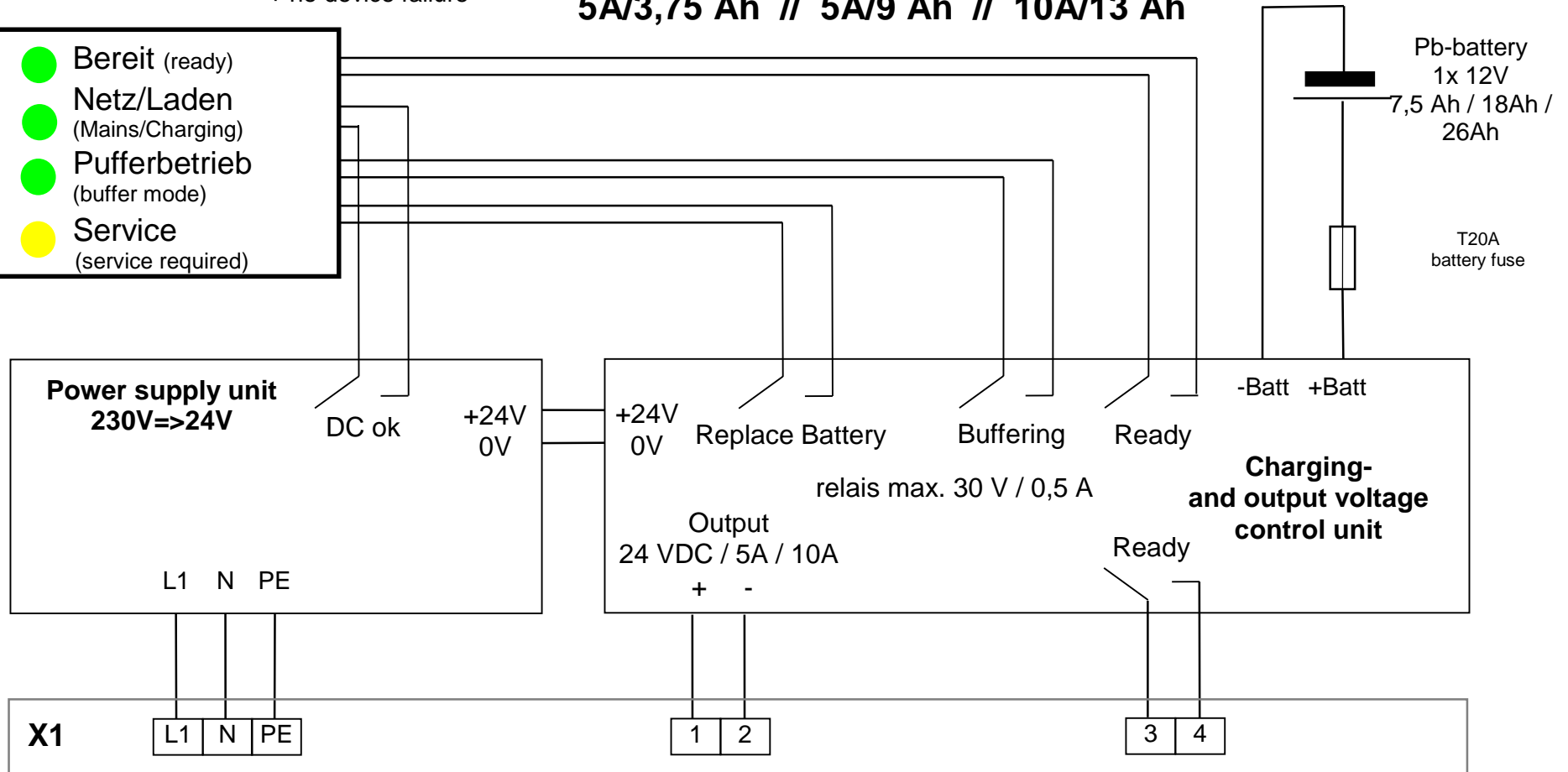
Development / Production Heerweg 15 D * 73770 Denkendorf Tel: 0711 / 3414159 Fax: 0711 / 3414047 E-Mail: info@umsitec.de	Planing Office / Installation / Service Esteraustraße 10 * 56379 Holzappel Tel: 06439 / 90 19 90 Fax: 06439 / 90 19 91 E-Mail: u.ramakers@umsitec.de	 <p>UMSITEC Umwelt- und Sicherheitstechnik Elektroinstallateur-Meisterbetrieb</p>  <p>© UMSITEC / Ohne unsere Genehmigung darf diese Ausarbeitung weder kopiert noch dritten Personen, insbesondere Konkurrenzfirmen zugänglich gemacht werden</p>
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Uninterruptable emergency power supply UPS-B1

Bereit(ready) = Battery charged >85% + mains power connected
+ no device failure

USV-B1 25-22,4V
5A/3,75 Ah // 5A/9 Ah // 10A/13 Ah

- Bereit (ready)
- Netz/Laden (Mains/Charging)
- Pufferbetrieb (buffer mode)
- Service (service required)



MAINS 85-264 AC
Mains power supply connection

+24V 0V
CO / Gas - warning system

CBCS
Ready = Battery charged >85%
+ mains power connected
+ no device failure