

## Operating instructions

### Uninterruptible EIB power supply with integrated choke



#### 1. Safety warnings



Attention: Electrical equipment must be installed and fitted by qualified electricians only and in strict observance of the relevant accident prevention regulations. To prevent electric shocks, disconnect the mains supply (by cutting out the circuit breaker) before working on the device. Failure to observe any of the installation instructions may cause fire and other hazards.

#### 2. System information

This unit is a product of the *instabus*-EIB-System and corresponds to the EIBA Guidelines. Detailed technical knowledge acquired in *instabus* training courses is a prerequisite for the understanding of the system. Planning, installation and commissioning of the device are effected with the help of EIBA-certified software. An updated version of the product database and the technical descriptions is available in the Internet at [www.jung.de](http://www.jung.de).

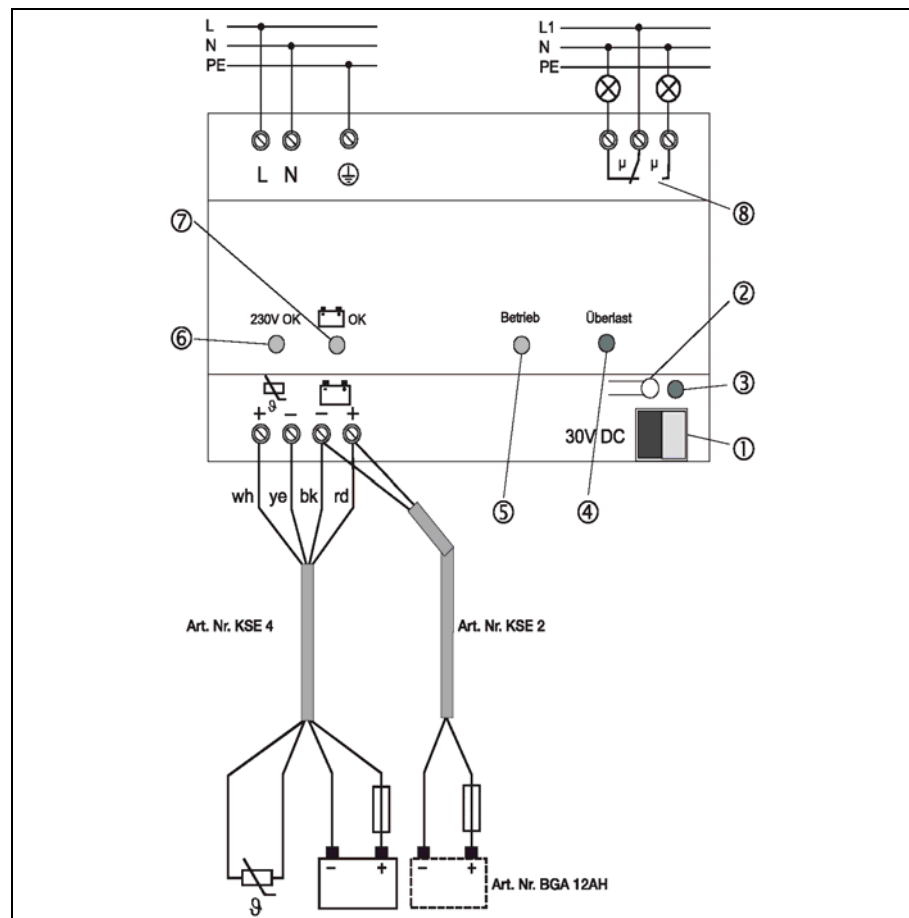
#### 3. Function

The uninterruptible EIB power supply 640 mA (UPS) generates and monitors the EIB system voltage of 30V DC (SELV) and can supply power directly to a maximum number of 64 EIB subscribers via the integrated choke. For buffering of the EIB voltage, a 12 V DC gelled lead-acid storage battery (Art. No. BGA 12 AH) can be connected with the 4-wire cable set (Art. No. KSB 4). Do not use other cables. In normal operation, the storage battery is charged with temperature control by the EIB power supply. In the event of mains failures, the EIB power supply is backed up by the battery. To increase the buffering time during mains failures, a second battery of the same type can be connected via the cable set (Art. No. KSE 2). A potential-free change-over contact (8) permits transmission of a fault message in the event of mains failure, battery fault, over-voltage, overload and short circuits.

## 4. Fitting

Fit the EIB power supply only in distribution boxes or control cabinets on a 35 mm DIN mounting rail. Ensure sufficient ventilation to prevent the admissible temperature range of the device from being exceeded.

## 5. Anschluss



The mains is connected to terminals L, N and , .

The EIB cable is connected to the bus connecting terminal (1). The storage battery (storage capacity > 5 Ah) is connected by means of the 4-wire cable set (Art.No. 1128 00):


red (rd): + 12 V battery to termina „ +“


black (bk): – battery to terminal „–“

yellow (ye): – temperature sensor to terminal „~~4~~ 3 –“

white (wh): + 12 V temperature sensor to terminal „ 0 +“

The temperature sensor in the cable set must always be connected and placed close to the battery for ambient temperature control. The second storage battery is connected with the 2-wire cable set Art.No. KSE 2:


red: + 12 V battery to terminal „ +“

black: – battery to terminal „–“

**Important: Do not use any other cables!**




Storage batteries with an overall capacity of less than 5 Ah are connected in a different way. More information can be found in the product documentation of the uninterruptible power supply.

## 6. Controls and indicators

- (2) Reset button: Resetting begins on pressing the button and lasts 20 seconds independent of the time the button is pressed.
- (3) LED red: lit up during the reset period
- (4) LED overload red: lights up in the event of overload or short circuit => rectify fault and then carry out a reset
- (5) LED operation green: lit up during normal operation
- (6) LED 230 V OK green: lit up when mains voltage is OK
- (7) LED  OK green: lit up when storage battery is OK

## 7. Technical specifications

### Uninterruptible EIB power supply 640 mA with integrated choke

AC mains voltage	:195 to 255 V AC, 45 to 65 Hz
Power consumption	:max. 50 VA
Power dissipation	:max. 10 W
Cross-section of connecting cables	:0.2 to 4.0 mm <sup>2</sup> single wire
0.2 ... 2.5 mm <sup>2</sup> stranded wire	
Output Voltage	30 V DC (choke-equipped) :28 to 31V DC, SELV
Connection	<i>instabus</i> connecting terminal
Rated current	:640 mA, protected against
sustained short circuits	
Sustained short-circuit current	:max. 1.4 A
Potential-free change-over contact	
Rated voltage	:230V AC or
12/24V AC/DC	
Max. switching current	:6 A AC or 4 A DC
Min. switching current	:100 mA at U < 30 V AC/DC
Storage battery connection	
Rated voltage	:12 V DC
Rated charge current	:650 mA, between terminals  + and – 150 mA between terminals  0+ and  –

Mains failure buffering time

KNX

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power supply with  
integrated choke  
Ref.-no.: USV 640 MA

1 battery 12 V/12 Ah	:ca. 5.5 h (battery practically new)
2 batteries 12 V/12 Ah	:approx. 11 h (battery practically new)
Ambient temperature:	:-5 °C ... +45 °C
Type of protection	:IP 20 as per DIN EN 60 529
Dimensions	:90 x 144 x 64 mm (8 pitch)
Weight	:0.5 kg

## **Bleigel-Akkumulator Art. Nr. BGA 12AH**

Dimensions	:94 x 151 x 98 mm
Weight	:4.2 kg
Service life	:5 years
Ambient temperature	:- 20 °C ... 50 °C

## **Basic cable set Art. No. KSB 4 and extension cable set Art. No. KSE 2**

Length	:2 m
Fuse	:5 x 20 mm, T 6.3 A H 250V break capacity 1500A

**Technical specifications subject to change.**

## **8. Guarantee**

Our products are under guarantee within the scope of the statutory provisions.

**Please return the unit postage paid to our central service department giving a brief description of the fault:**


ALBRECHT JUNG GMBH & CO. KG  
Service-Center  
Kupferstr. 17-19  
D-44532 Lünen  
Service-Line: +(49) 23 55 . 80 65 51  
Telefax: +(49) 23 55 . 80 61 65  
E-Mail: mail.vka@jung.de

### **General equipment**

Service-Line: +(49) 23 55 . 80 65 55  
Telefax: +(49) 23 55 . 80 62 55  
E-Mail: mail.vkm@jung.de

### **KNX equipment**

Service-Line: +(49) 23 55 . 80 65 56  
Telefax: +(49) 23 55 . 80 62 55  
E-Mail: mail.vkm@jung.de

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