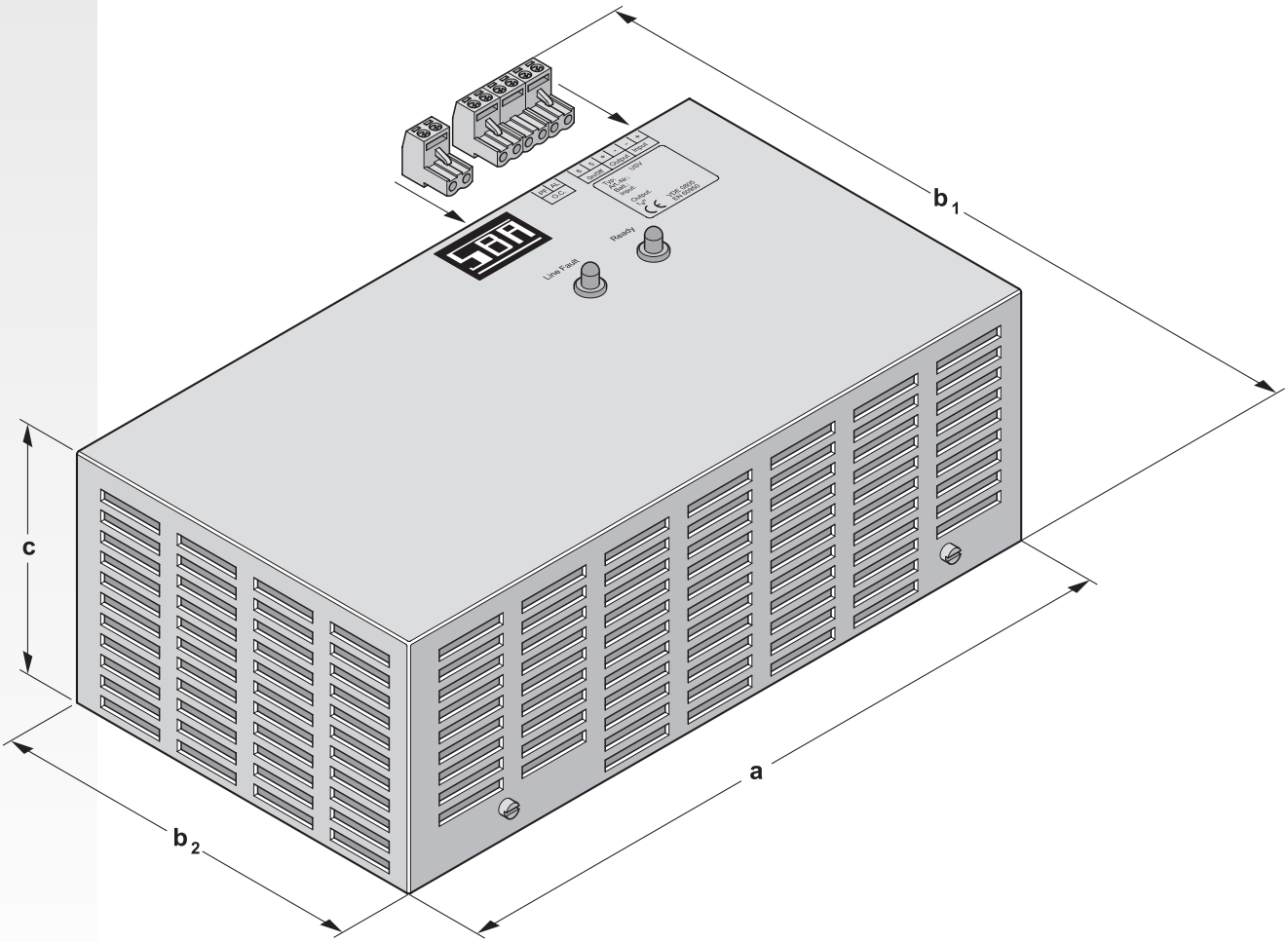
Type USV-Modul

Uninterruptible power supplies

Application

In combination with smoothed or unsmoothed DC power supplies from SBA, the USV Module is an uninterruptible 24 V DC power supply. If the 24 V DC control power or the mains supply fails, the system switches to battery back-up without interruption to avoid:

- dangerous conditions for operators
- scrap production or loss of data
- tool damage
- undefinied conditions



CE

available ex stock

Type USV

DC POWER SUPPLIES

Construction

- Compact design in black metal housing
- Snap-on or screw fasten to top hat rail according to DIN EN 50022
- The integrated maintenance-free lead battery (2.2 Ah) is charged and the charge maintained by a temperature-compensated dual-level float charger
- If the output voltage of the DC power supply fails or undervoltage occurs in the 24 V DC control circuit (U < 21 V DC), the battery connects to load without interruption (no switch-over time)
- In float mode, the output voltage is max. 27.6 V (no load) and approx. 24 V (rated load), depending on the condition and load of the battery
- The uninterruptible supply mode ends automatically when the DC input returns to normal
- The PF power fail output indicates float mode
- The AL alarm signals that the battery voltage has dropped to approx. 21 V DC (warns of battery exhaustion)
- If the charge is exhausted further to approx. 19 V DC, the electronic exhaust protect function stops the uninterruptible supply
- The module can be switched on and off at the ON/OFF output, e.g., to bridge a brief spell by the dropout delay of the relay

Specifications

Normal mode	
Input voltage	SELV 24 V DC
Range	21,5 - 29 V DC
Charge current (internal)	max. 1,5 A
Load current:	duration: 10 A DC Peak: 15 A DC max. 5 s
Sort circuit protection	by short-circuit resistant power supply
Float mode	
Output voltage	24 V DC max. 27,6 V DC (= battery voltage)
Output current	10 A for max. 3 min 6 A for max. 5 min 3 A for max. 10 min
Short-circuit protection	integrated fuse link FKS 20 A
Protection class	III
Protection index	IP 20
Ambient temperature	**0 to 40 °C**
Storage temperature	-15 to 40 °C
Interference emmission	EN 61000-6 -3/-4, (class B)
Interference immunity	EN 61000-6 -1/-2
Safety	EN 60950/ VDE 0805

Overview

Type	Article no.	Line voltage Range V (DC)	Ripple max.	Output Voltage V (DC)	Current A (DC)	Total weight appr. kg	Dimensions a	b_1 approx. mm	b_2 approx. mm	c
USV2410	600-0002	21.5 - 29.0	2 %	24	10	3.1	240	142	131	85
USV2410C	600-0003	21.5 - 29.0	5 %	24	10	3.2	240	142	131	85

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