4.2.6.5 5AC901.BUPS-01

4.2.6.5.1 General information

- Battery unit for UPS IF option 5AC901.IUPS-01
- Maintenance-free lead acid rechargeable battery
- 2x 12 V, 2.2 Ah rechargeable batteries connected in series
- Rated voltage 24 V
- Capacity 2.2 Ah

The battery unit is subject to wear and should be replaced regularly (after the specified service life at the latest).

Warning!

Battery unit 5AC901.BUPS-01 is only permitted to be operated with UPS IF option 5AC901.IUPS-01!

Information:

If the max. specified temperature limits of the battery unit are overshot or undershot, the temperature alarm of the battery unit is set. Battery backing is no longer provided if the temperature alarm for the battery unit is active. The battery is also no longer charged since this can result in damage to the battery. This temperature alarm is defined with a hysteresis of 5°C, i.e. the temperature alarm is only cleared again if the minimum temperature limit is again overshot by this hysteresis or the maximum temperature limit is again undershot by this hysteresis. The temperature or temperature alarm of the battery unit is not only monitored and checked at runtime, but also when the system is powered on; it can be evaluated using the B&R ADI library.

4.2.6.5.2 Order data

Order number	Short description	Figure
	Uninterruptible power supplies	
5AC901.BUPS-01	Battery unit 2.2 Ah - For UPS 5AC901.IUPS-01	
	Required accessories	
	Uninterruptible power supplies	
5CAUPS.0005-01	UPS cable - 0.5 m - For 5AC901.IUPS-xx	
5CAUPS.0010-01	UPS cable - 1 m - For 5AC901.IUPS-xx	
5CAUPS.0013-01	UPS cable - 1.3 m - For 5AC901.IUPS-xx	
5CAUPS.0030-01	UPS cable - 3 m - For 5AC901.IUPS-xx	



4.2.6.5.3 Technical data

Order number	5AC901.BUPS-01
General information	
B&R ID code	0xDF83
Battery	
Type	12 V, 2.2 Ah, two rechargeable batteries connected in series
Service life	Up to 5 years at 20°C [1]
Variant	Maintenance-free lead acid battery (VRLA)
Temperature sensor	NTC resistance
Service interval during storage	Charge 1 time every 6 months
Charge duration when battery low	Typ. 5 hours
Certifications	
CE	Yes
UKCA	Yes
UL	cULus E115267 Industrial control equipment
HazLoc	cULus HazLoc E180196 Industrial control equipment for hazardous locations Class I, Division 2, Groups ABCD, T4 [2]
Electrical properties	
Nominal voltage	24 V
Capacity	2.2 Ah
Fuse	Yes

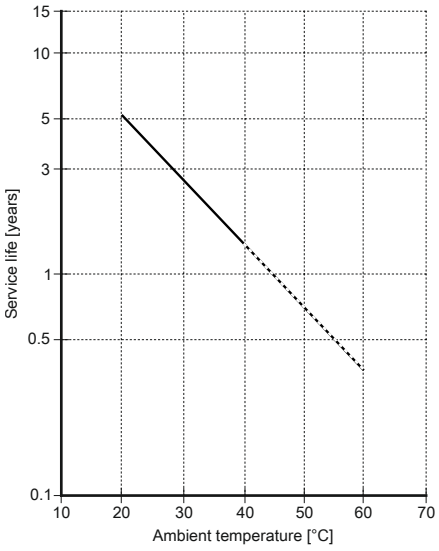
Technical data

Order number	5AC901.BUPS-01
Battery charging data	
Charging current [3]	Typ. 0.88 A
Operating conditions	
Pollution degree per EN 61131-2	Pollution degree 2
Ambient conditions	
Temperature	
Operation	0 to 40°C [4]
Storage	-15 to 40°C
Transport	-15 to 40°C
Relative humidity	
Operation	25 to 85%, non-condensing
Storage	25 to 85%, non-condensing
Transport	25 to 85%, non-condensing
Elevation	
Operation	Max. 3000 m
Mechanical properties	
Housing	
Material	Rev. E0 and later: Steel, galvanized and coated Up to Rev. D0: Steel, galvanized
Dimensions	
Width	188 mm
Height	78 mm
Depth	115 mm
Weight	Approx. 2550 g

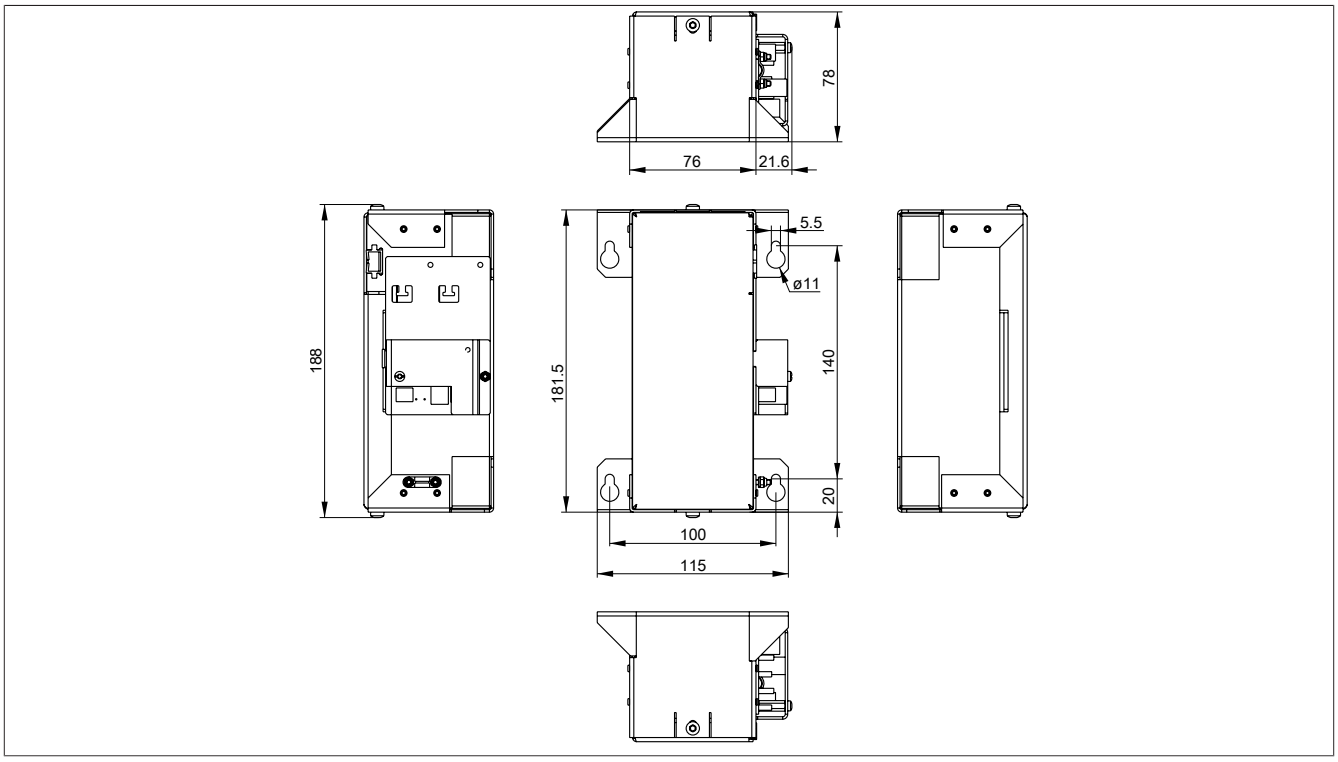
1) Depends on the charging and discharging cycles.
2) Yes, but applies only if all components installed in the complete system have this certification and the complete system bears the corresponding mark.
3) Maximum charging current.
4) Battery backing is no longer provided if the temperature undershoots the minimum temperature or overshoots the maximum temperature. The battery is also no longer charged since this can result in damage to the battery.

4.2.6.5.4 Service life

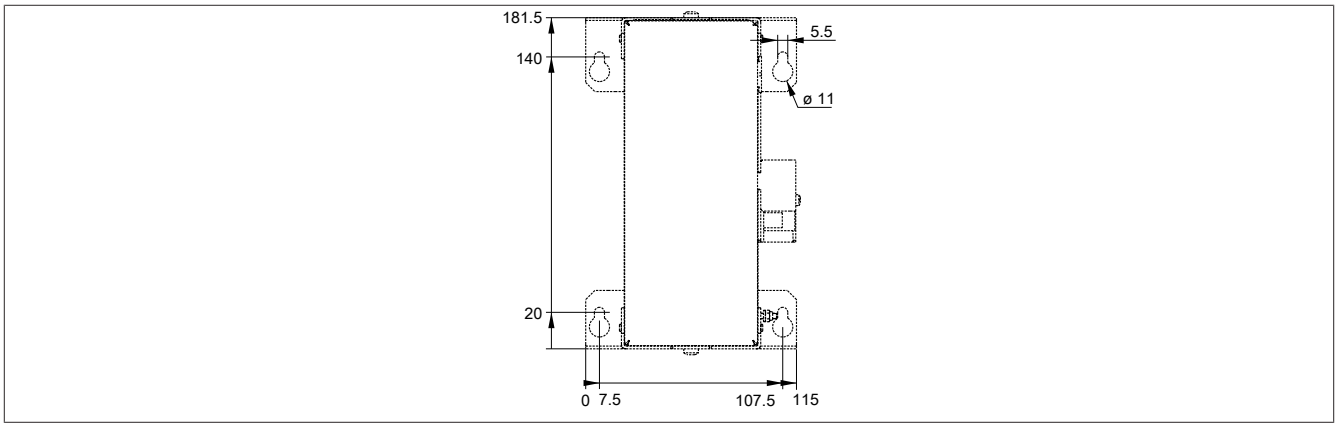
The following diagram shows the relationship between ambient temperature and service life.



4.2.6.5.5 5AC901.BUPS-01 - Dimensions



4.2.6.5.6 5AC901.BUPS-01 - Drilling template



4.2.6.5.7 Installation

For information about installation and connecting to the UPS IF option, see section "Installing and connecting the UPS battery unit" on page 231.

4.2.6.5.8 Precautions for handling and use

Spills and leaks:

Further leakage must be prevented. Smaller spills must be bonded with dry sand, dirt and vermiculite. The use of flammable materials is not permitted. If possible, neutralize acids with sodium bicarbonate, chalk, etc. Acid-resistant clothing, shoes, gloves as well as acid-resistant face protection must be worn. The disposal of unneutralized acid in the sewage system is prohibited!

Waste disposal:

Used batteries and rechargeable batteries must be disposed of in an environmentally friendly recycling process.

Neutralized mud must be stored in closed containers and stored / disposed of in accordance with applicable regulations. After neutralization and inspection, larger spills diluted with water must be disposed of in accordance with applicable regulations.

Handling and storage:

- Store in cool, dry and well-ventilated rooms with impermeable surfaces and appropriate containment conditions in case of leakage.
- Protect from adverse weather conditions and separate from incompatible materials during storage and transport.
- A sufficient supply of water must be located nearby.
- Prevent damage to containers in which batteries and rechargeable batteries are stored and transported.
- Keep away from fire, sparks and heat.