## SIN - UPS PRODUCT SHEET / TECHNICAL DATA

#### UPS SINUS 200W S



#### Technical specifications

These technical specifications are subject to change without notice.

#### SINUS UPS name, article number and e-number

Name	Article number	E-number
SINUS UPS 200W S	SM01U0011FP002B70	5213620

#### Maximum rated power

Maximum rated power	Continuous effect
SIN 200W S	200 W

#### ABOUT UPS

The UPS are designed with the latest switch technology and microprocessor monitoring, for maximum efficiency and reliability, providing long life for both electronics and batteries. UPS is well protected with protection against overtemperature, overload, short circuit.

- Complete self-test including advanced battery test.

The units are installation and service friendly: - Compact volume.

NOTE! This translation is not verified and the information should always be cross-checked with the swedish original.

## Fixed installation

The product is intended for fixed installation. The battery backup must be installed by a qualified installer.

## **AREAS OF USE**

SINUS UPS is mostly used for camera surveillance, PoE switches and other security systems. Sinus UPS is also used for gates and gate control of smaller and larger industrial and garage doors.

- · Camera surveillance,
- PoE switches and other security systems.
- Gate and door control of smaller and larger industrial and garage doors.

## **REGULATIONS AND CERTIFICATIONS**

## Requirements that the product meets

Electricity:	Low voltage directive: 2014/35 / EU
	EN 62368-1
CE:	CE directive according to: 765/2008
Emission:	EN61000-6-: 2001 EN55022: 1998: -A1: 2000, A2: 2003 Klass B, EN61000-3-2: 2001
Immunity:	EN61000-6-2:2005, EN61000-4-2, -3, 4, -5, -6, -11
LVD	EN60950





## **CIRCUIT BOARDS - TECHNICAL DATA**

### Technical data: CEO 3

Info	Explanation
Article title	CEO3
Product description	CEO 3 is the next generation circuit board for simpler battery backups. Advanced functions that were not previously possible in simpler battery backups are now available as standard. CEO 3 is a reliable heart in simpler battery backups with fewer components than before, which reduces the environmental impact.
Measure	120 x 55 mm x 52 mm
Voltage form	1-phase sine
Fuses	See table: Fuses
Fuse on output	24 V
Outputs	Output: four load outputs 1-4 which are prioritized load outlets. (= always voltage).
Insurance	Load output: + secured.
Indication	Display showing operating status, alarms and faults. Operating indication: one indication diode per load output +/ Solid green light = normal operation.

### 230 V VOLTAGE IN

Voltage	Explanation / comment
Voltage in:	230V -15%, + 20% in mains operation.
Mains power:	charger max 0.4A + load.

## 230 V OUTPUT VOLTAGE

Voltage OUT	Explanation / comment
Voltage out:	230 V - 10% in battery operation.
Voltage form:	Single-phase sine voltage.
Efficiency, approx:	90%
Idle power, approx:	10 W

## **BATTERY CHARGE**

I / O according to DIN 41773 Current limitation.

## **PROTECTION**

Type of protection	Explanation	
Current limitation, electronic:	Type 300% of rated capacity.	



Type of protection	Explanation
Short-circuit protection:	Shutdown within 5 sec in case of heavy overload / short circuit according to UPS EN62040-1-1 standard.  Automatic restart when mains voltage returns.
Depth discharge protection:	When the battery terminal voltage is less than 19 V.
Overcharge protection:	Disconnection of charging voltage during overcharging.
Automatic fuse:	Batteries are secured.
Optional: Ground fault circuit breaker:	Can be installed on output (extra protection option according to EN62040-1-1).

## **FUSES MINISINUS V8**

On circuit boards	Fuse	Explanation
F1	T16A	Battery fuse

### **SELF-TEST**

Type of self-test	Explanation
Battery charge	Continuous monitoring of battery chargers.
Battery aging	Automatic test loading of batteries under high, short-term discharge current to detect battery aging. The test compares measured battery capacity with programmed values to give an alarm when the battery has lost 20% - 40% capacity of new value and should be replaced.
Inverters	Test load of UPS (corresponding rated power over internal test load) to check function and sufficient output voltage.

### ALARM

All alarms occur on potential-free relay switching.

Alarm type	Explanation
Power outage alarm	Alarm in case of network interruption adjustable time delay from direct to 10 h (3s, 3, 15, 30m, 1, 2, 4, 10h).
Sum Alarm, Self-Test:	Incorrect charging voltage (over- or under-voltage), aged battery that should be replaced or a malfunctioning inverter.

# TECHNICAL DATA ENCLOSURES

### Enclosures - Technical Data S

Info	Explanation
Name	S
Enclosure class	IP 20
Measure	Height: 230 mm, width: 216 mm, depth: 85 mm.
Height units	•
Mounting	Wall
Ambient temperature	+ 5 ° C - + 40 ° C. For best battery life: + 15 ° C to + 25 ° C.
Environment	Environmental class 1, indoors. 20% ~ 90% relative humidity
Material	Powder coated sheet
Color	White
Cable entries, number	3
Batteries that fit	1 pc 12 V 2.3 Ah or
	2 pcs 12 V 2.3 Ah or
	1 pcs 12 V, 7.2 Ah.
Place for fan	No

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## BATTERIES - RECOMMENDED, NOT INCLUDED

Batteries are not included they are sold separately

Batteries are sold separately.

#### 7.2 Ah, 12 V AGM battery

Fits in	Number of batteries					
Batt	V	Ah				
Maintenance-free AGM, lead-acid battery.		12 V	7.2 Ah			

#### 10+ Design life \* battery

Article number	E-number	Article name	Terminal	Measure. Height width depth	Weight per piece	Make
MT113-12V07-01	5230536	UPLUS 12V 7.2Ah 10+ Design Life battery	Flat pin 6.3 mm	151 x 65 x 100 mm.	2.4 kg	UPLUS

<sup>\*</sup> Design Life is the durability this year for unused battery. Environmental factors such as heat and load affect service life. Batteries that have a durability (+10 Design ILife) of 10+ years usually need to be replaced after 4-5 years.

## LINK TO THE LATEST INFORMATION

Products and software are subject to updates, you will always find the latest information on our website.

#### Sinus UPS

All information is published with the reservation of possible errors.

# WARRANTY, SUPPORT, COUNTRY OF MANUFACTURE AND COUNTRY OF ORIGIN

#### Warranty

The product has a two-year warranty, from the date of purchase (unless otherwise agreed). Support during the warranty period can be reached at support@milleteknik.se or telephone, +46 31-34 00 230. Compensation for travel and / or working hours in connection with locating faults, installing repaired or replaced goods is not included in the warranty. Contact Milleteknik for more information. Milleteknik provides support during the product's lifetime, however, no later than 10 years after the date of purchase. Switching to an equivalent product may occur if Milleteknik deems that repair is not possible. Support costs may (at Milleteknik's discretion) occour after the warranty period has expired.

#### Support

Do you need help with installation or connections? Our support phone is available: Monday-Thursday 08: 00-16: 00 and Fridays 08: 00-15: 00. Telephone support is closed between 11: 30-13: 15.

You can also send e-mail, we respond, on weekdays, usually in 24 hours.

Phone: +46 31-340 02 30

SPARE PARTS

Support handles questions about spare parts, see contact information above.

#### Country of manufacture

Country of manufacture / country of origin is Sweden. For more information, contact your seller.

Designed and produced by: Milleteknik AB

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