

PRODUCT SHEET

SIN - UPS Product sheet / technical data



Product Identification

Table 1. Product designation, Part Number and E-Number

Product designation	Item No.	E-number (SE)
300W 2HE SINE UPS	2U02U0021FP003	52,137 92

Technical description

Compact 2-HE rack-mounted UPS for 19" racks with 300 W continuous power and space for 2 x 12 V 20 Ah batteries. Prepared for communication via relay outputs as well as the possibility of Modbus and compatible with external battery box (4 x

Table 2. Quick Facts

Quick Facts	
Supply voltage (V)	230V AC, +/- 10%, 47Hz- 63Hz
Voltage out (V)	230V AC, +/- 10%, 47Hz- 63Hz
Batteries ^a	2 x 20 Ah

^a Recommended. If batteries are included, it is indicated, otherwise batteries are ordered separately

Areas of application

Table 3. Areas of application

Areas of application	Yes	No
Designed to ensure uninterrupted operation of critical equipment in security and communication systems.	✓	

Electrical data

Table 4. Electrical data

Electrical data	
Supply voltage	230V AC, +/- 10%, 47Hz- 63Hz
Charge current	Max 5 A
Voltage out	230V AC, +/- 10%, 47Hz- 63Hz
Rated power (W)	300W

Battery

Table 5. Technical data - Batteries

Battery	
Ref. Batteries ^a	2 x 20 Ah
Battery type	Maintenance-free AGM (lead-acid) batteries
Deep discharge protection	And

^a If batteries are included, it is indicated, otherwise batteries are ordered separately.

Enclosure and Mechanics

Table 6. Enclosure and Mechanics

Enclosure and Mechanics	
Type	Enclosure for 19" rack
IP class	IP20
Material	
Colour	Black
Height units	2
Cable grommets	6 pcs
Lock	✓ 2 keys included
Fan in enclosure	X

Assembly, installation and eligibility requirements

Table 7. Fitting

Fitting	Yes	No
19" rack.	✓	

Table 8. Installation

Installation	Yes	No
Fixed installation.	✓	

Dimensions, weight and packaging information

Table 9. Dimensions

Dimensions, (WxHxD).	Dimensions with packaging ^a .
88 x 244 x 280 mm	110 x 440 x 240mm

^aDimensions (WxHxD) of product and packaging may differ, this is because the product may be oriented differently in the package.

Table 10. Weight

Net weight	Weight with packaging
13.0 kg	13.3 kg

Table 11. Packaging

Packaging	
Packaging	
Quantity in pack	1 pc.
Packaging Type (GS1 T0137)	BX box.
Conditions EUR pallet	EUR pallets may not be stacked during transport or storage. Stacking may result in damage to product and packaging
Transport environment	The product must be protected from condensation and direct precipitation during transportation.
Transport temperature (without battery)	-30 °C to +70 °C
Storage environment	Dry indoor environment, protected from condensation. Relative humidity: max 95%, non-condensing
Storage temperature without batteries	-20 °C to +60 °C

The accessories fits in

Table 12. Number of battery boxes that can be connected

Number of Battery Cabinet Large 24V 2U that can be connected:
! 1

About this information

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COMPLIANCE AND REGULATORY COMPLIANCE

Delivery time, warranty and terms

Table 13. Delivery time, warranty and terms

Delivery time, warranty and terms	
Warranty period ^a .	The product has a two (2) year warranty against manufacturing defects.
Special warranty conditions	See also general terms and conditions.
General Terms and Conditions	ALEM09 with exceptions, see: www.milleteknik.se/conditions/
Support	Telephone support and email support during the warranty period are free of charge. For spare parts that are not covered by warranty, there is a charge
Delivery and stock	
Delivery time ^b .	Or as per agreement. Delivery from factory, transportation time is added.

^aIf the device is purchased through a wholesaler or other supplier, other warranty conditions may apply

^bIn the case of larger orders, delivery time increases, acc. to agreement.

Operation and maintenance

Table 14. Operation

Operation	Data	Other. info
Environment		
Operating temperature (recommended)	+15°C to +25°C	
Operating temperature (permissible) ^a .	+5°C to +40°C	Class 1 according to EN 50131-6/ EN 60839-11
Load, power supply	80%	Average load shall not exceed 80% of the rated capacity of the power supply.
Ventilation, in front and behind the enclosure.	100 mm	Ventilation openings must not be blocked or covered.

^aSpecifies the permissible ambient temperature range in which the product can operate without damage. See also table on battery life.

Table 15. Maintenance

Yes	No	Interval	Other. info
✓		Annually	Battery terminal voltage must be measured. Ensure that the average load does not exceed 80% of the rated capacity of the power supply.

Certifications and approvals

Table 16. Approved according to

Complies with	Directives
C.E.	CE marking according to Regulation (EC) No 765/2008
RoHS	RoHS Directive 2011/65/EU, including amendment (EU) 2015/863
EMC	EMC Directive 2014/30/EU
Electric (LVD)	Low Voltage Directive 2014/35/EU

Table 17. Ups

Complies with	Yes	No
EN50081-1, -2, EN55011, EN55022 (B) and EN50082-1, -2, EN61000-4-2, -3, -4, -5.	✓	

Complies with	Yes	No
The UPS meets the applicable EMC requirements of EN 61000-6-3/6-4 (emission) and EN 61000-6-1/6-2 (immunity).	✓	
EN 62368-1	✓	
EN 62040-1	✓	
EN 16005 ^a .		✗

^aSINUS UPS is a backup power unit (UPS) that meets the applicable parts of the EN 62040 standard series. Compliance with EN 16005 refers to the complete door system and rests with the door manufacturer or system integrator

Environmental data

Table 18. Environmental data

Environmental data	J/N	Informa ie	Other. info.
Building Product Declaration (BPD)	✓	Yes, see iBvd at www.milleteknik.se .	-
REACH Information Obligation (EC) No 1907/2006	✓		If empty, the product is not covered.
SVHC substances, CAS/EC	✓		For text, see iBvd at www.milleteknik.se . If blank, substance is missing.
Subject to the RoHS Directive, (EU) 2015/863)	✓		
WEEE 2012/19/EU	✓		If empty, the product is not covered. End-of-life products must be returned to a recycling centre
Battery Regulation (EU) 2023/1542			
SCIP No 2008/98/EC	✓		If empty, no SCIP number is needed.
Conflict minerals (EU) 2017/821	X/X/X/X/ ✓	No=Gold, Tungsten, Tantalum, Cobalt. Yes=Tin	Tin in solders in printed circuit boards purchased through a Swedish supplier.

Environmental data	J/N	Information	Other. info.
Contains nanomaterials: EC 1272/2008	X	The product does not contain nanomaterials.	
Ecodesign 2009/125/EC		Milleteknik's products are intended for professional use and are therefore not directly covered by the Ecodesign Regulation (EU 2019/1782). As some components may be covered, we nevertheless disclose relevant information ^a , where applicable, to provide our customers with confidence in their choice.	
Machine Directive 2006/42/EC		The product is part of electrical systems, is subject to the relevant electrical and safety directives and is not a machine according to the Machinery Directive (2006/42/EC). Will be replaced by Machinery Regulation (EU) 2023/1230, which will apply in 2027.	

^aStandby consumption and power.



Manufacturer and country of origin

Table 19. Manufacturer and country of origin

Manufacturer ^a	
Country of origin	

^aManufacturer is the trademark indicated on the product, regardless of what is stated in this product sheet.

APPENDIX

Backup operating time on batteries

The reserve operating time in battery operation depends on how large a load is connected to the power supply. If the load varies, as with frequent opening of door locks, the time that batteries can continue to power the security system decreases. To get an estimate of reserve operating times see: www.milleteknik.se/Manualer/FaQ/Reservdrifttider/

Eligibility requirements, installation

Eligibility requirements vary between countries. The table summarizes national requirements for fixed installation and connection of equipment with a plug socket, respectively.

Options on the secondary side of the product, such as 12 V, 24 V or 48 V DC, are connected according to the respective instructions. Work on the network connection of the product shall be carried out in accordance with national eligibility requirements

Table 20. Eligibility requirements by country. Applies only to the installation of this product in a fixed network connection

Permission Requirements for Installation	Fixed installation (230 V)	Plug	Other. info
Sweden	✓	x	Fixed installation may be performed by technicians but shall be under the responsibility of a qualified installer. (Electrical Safety Act, SS 436 40 00) Plug may be connected without authorization.
Norway	✓	✓	Requirements for qualified electricians also for equipment with a plug socket in fixed installations. (NEK 400, DSB)
Finland	✓	x	Plug may be connected without authorization. (Tukes, SFS 6000)
Denmark	✓	x	Plug may be connected without authorization. (Safety Board)
Germany	✓	x	All fixed installations require a qualified electrician according to VDE 0100. Plug sockets may be connected without authorization, but only by person with basic electrical knowledge ("Elektrotechnisch unterwiesene Person")

Reference table: environmental classes according to EN 50130-5 (referred to in EN 50131-6)

Table 21. Reference table: environmental classes according to EN 50130-5 (referred to in EN 50131-6)

Class	Type	Temperature range
Environmental Class 1	Heated indoors (type of office/residence).	+5°C to +40°C

Class	Type	Temperature range
Environmental Class 2	Generally indoors (type warehouses/stairwells, not temperature controlled).	-10°C to +40°C
Environmental class 3	Protected outdoors.	-25°C to +50°C
Environmental class 4	Generally outdoors.	-25°C to +60°C

Reference table: manufacturer's stated service life and recommended battery replacement

Table 22. Reference table: manufacturer's stated service life and recommended battery replacement

Battery Type (Design Life) ^a	Battery replacement time in normal operation, +20°C.	Replacement during hot operation, +30°C	Replacement during hot operation, +40°C
3 - 5 years	2 - 3 years	1 - 1.5 years	0.5 - 0.75 years
6 - 9 years	5 - 6 years	2.5 - 3 years	1.2 - 1.5 years
10 - 12 years	6 - 7 years	3 - 3.5 years	1.5 - 1.75 years
15 + years	10 - 12 years	5 - 6 years	2.5 - 3 years

^aValid in case of completely unused battery stored under optimal conditions.

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