

## PRODUCT SHEET

### SSF1014 certified battery backup with communication



#### Item Information

The table shows the name, part number and email number of the product

#### PRODUCT IDENTIFICATION

Table 1. Product designation, part number and email number.

Product designation	Article number	E-number (SE)
NOVA 24V 5A 2HE	2U02P30024P050	52,137 88

#### Technical description

Compact rack-mounted battery backup in 2 HE with 24 V, 5A and space for 2 x 12 V 20 Ah batteries, optimized for mounting in 19" racks. Prepared for Vanderbilt Omnis communications as well as extended lightning protection.

Table 2. Quick Facts

Quick Facts	
Supply voltage (V)	230V AC, +/- 10%, 47Hz-63Hz
Voltage out (V)	27.3 V DC, (24 V DC)
Current output (A), max load current output.	5A
Batteries <sup>a</sup>	2 x 20 Ah

<sup>a</sup>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 for backup power to access systems and security applications in 19" racks where compact installation is required.	✓	

#### Electrical data

Table 4. Electrical data

Electrical data	
Supply voltage	230V AC, +/- 10%, 47Hz- 63Hz
Charge current	Depending on the power outlet. Max 5 A
Voltage out	27.3 V DC, (24 V DC)

#### Load outputs

Table 5. Load outputs

Load outputs	
Number of load outputs	! 2 <sup>a</sup> .

<sup>a</sup>Load outputs share on the total maximum load. The value does not apply per output

Table 6. Total maximum load and recommended load.

Model	Recommended total load (80%) <sup>a</sup> .
5A	4 A

<sup>a</sup>Typically, 70-80% of the maximum load is recommended in continuous operation, depending on the thermal margins of the product.

#### Alarm and protection

Table 7. Number of relay on which alarm can be given

Number of Relays	Alarm on switching relay? <sup>a</sup>
0	X

<sup>a</sup>Relay, alternating potential-free contacts.

Table 8. Alarm over communication and on LED on motherboard PRO3

Alarms	Alarm via communication <sup>a</sup> .	Indication diode on main board.
Network outage	✓	✓
Fuse failure	✓	✓
Sabotage Breakers	✓	✓
Fan failure	✓	
Charger failure, overvoltage	✓	✓
Charger failure, undervoltage	✓	✓
Cell failure or not connected battery	✓	✓
Low system voltage, (system voltage below 24.0 V in mains operation).	✓	✓
Low battery voltage (<24.0 V DC) or power failure	✓	✓
Over-temperature	✓	
Sub-temperature	✓	
Short battery life remaining	✓	
Overcurrent 80%, daily average	✓	
Overcurrent 100%, minute average	✓	
Over current 175%, second average	✓	

<sup>a</sup>Applies to communication against the parent system, active only if configuration allows.

Table 9. Alarm and protection

Alarm and protection	Yes	No
Battery charge protection/controlled charging <sup>a</sup> .		
Deep discharge protection, see <a href="#">Battery [2]</a> <sup>b</sup> .	✓	
Over-temperature protection	✓	
Short circuit protection	✓	

<sup>a</sup>Controlled charging protects and extends battery life.

<sup>b</sup>When the deep discharge protection is activated, the device turns off and the LED goes out.

#### Communication and Indications

Table 10. Communication and Indications

Communication and Indications	Yes	No	Other. info.
Communication			
PowerWatch <sup>a</sup> .	✓		
Indicators/LEDs			

<sup>a</sup>PowerWatch consists of a cable and software, it is ordered separately.



The PowerWatch is available as an option for the product.

**Battery**

Table 11. Technical data - Batteries

Battery	
Ref. Batteries <sup>a</sup>	2 x 20 Ah
Battery type	Maintenance-free AGM (lead-acid) batteries

<sup>a</sup>If batteries are included, it is indicated, otherwise batteries are ordered separately.

**Enclosure and Mechanics**

Table 12. 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	✗ Fan sits in power supply

**Assembly, installation and eligibility requirements**

Table 13. Fitting

Fitting	Yes	No
19" rack.	✓	

Table 14. Installation

Installation	Yes	No
Fixed installation.	✓	

**Dimensions, weight and packaging information**

Table 15. Dimensions

Dimensions, (WxHxD).	Dimensions with packaging <sup>a</sup> .
88 x 244 x 280 mm	110 x 440 x 240mm

<sup>a</sup>Dimensions (WxHxD) of product and packaging may differ, this is because the product may be oriented differently in the package.

Table 16. Weight

Net weight	Weight with packaging
7.0 kg	7.3 kg

Table 17. 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 18. Number of battery boxes that can be connected

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

**Contact**

Table 19. Contact

Department	
Switchboard	031-340 02 30
Support and technical issues	support@milleteknik.se
Sales	sales@milleteknik.se
WWW	www.milleteknik.se
Address	Ögärdesvägen 8B, 433 30 Partille

**About this information**

All information is published subject to possible errors. Information is updated without prior notice.

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## COMPLIANCE AND REGULATORY COMPLIANCE

### Delivery time, warranty and terms

Table 20. Delivery time, warranty and terms

Delivery time, warranty and terms	
Warranty period <sup>a</sup> .	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: <a href="http://www.milleteknik.se/conditions/">www.milleteknik.se/conditions/</a>
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 <sup>b</sup> .	Or as per agreement. Delivery from factory, transportation time is added.

<sup>a</sup>If the device is purchased through a wholesaler or other supplier, other warranty conditions may apply

<sup>b</sup>In the case of larger orders, delivery time increases, acc. to agreement.

### Operation and maintenance

Table 21. Operation

Operation	Data	Other. info
Environment		
Operating temperature (recommended)	+15°C to +25°C	
Operating temperature (permissible) <sup>a</sup> .	+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.

<sup>a</sup>Specifies the permissible ambient temperature range in which the product can operate without damage. See also table on battery life.

Table 22. 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 23. Approved according to

Complies with	Directives
Emissions	
Immunity	EN61000-6-2:2005, EN61000-4-2, -3, 4, -5, -6, -11 SS-EN 50130-4:2011 Edition 2, EN50131-6
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

### HOW DO CERTIFICATES APPLY IF OPTIONAL IS INSTALLED IN THE DEVICE?

Table 24. Do certificates apply if optional is installed outside the device?

Product Series	Certification	Do certificates apply if optional is installed in the device?
NOVA <sup>a</sup> .	SSF 1014 (Burglary)	Yes

<sup>a</sup>The product is certified together with the parent system. In order for certificates to be maintained, batteries of the same brand must be used as in certification, (

### Environmental data

Table 25. Environmental data

Environmental data	J/N	Informa ie	Other. info.
Building Product Declaration (BPD)	✓	Yes, see iBvd at <a href="http://www.milleteknik.se">www.milleteknik.se</a> .	-
REACH Information Obligation (EC) No 1907/2006	✓		If empty, the product is not covered.
SVHC substances, CAS/EC	✓		For text, see iBvd at <a href="http://www.milleteknik.se">www.milleteknik.se</a> . 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/ ✓	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 <sup>a</sup> , 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.	

<sup>a</sup>Standby consumption and power.



#### Manufacturer and country of origin

Table 26. Manufacturer and country of origin

Manufacturer <sup>a</sup>	
Country of origin	

<sup>a</sup>Manufacturer 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/](http://www.milleteknik.se/Manualer/FaQ/Reservdrifttider/)

### PowerWatch



Table 27. PowerWatch Ordering Information

Product designation	Item No.	E-number (SE)
PowerWatch	A-OT0000UPG02P2V3P3	52 137 06

Table 28. Alarms that can be set in PowerWatch

Alarms that can be set in PowerWatch
Charger failure, overvoltage
Charger failure, undervoltage
Fan failure, (in case of externally connected fan)
Fuse failure on load
Low battery voltage, in battery operation
Power outage, delay 10 seconds
Unconnected battery
Unit not calibrated

### 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 29. 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)

Permission Requirements for Installation	Fixed installation (230 V)	Plug	Other. info
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 30. 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
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 31. Reference table: manufacturer's stated service life and recommended battery replacement

Battery Type (Design Life) <sup>a</sup>	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

<sup>a</sup>Valid in case of completely unused battery stored under optimal conditions.

### Reserve operating times for different alarm classes - overview

Alarm class	Spare operating time in the event of a power failure	Maximum number of hours of battery recharging (80%)
EN54-4	-	24 h

Alarm class	Spare operating time in the event of a power failure	Maximum number of hours of battery recharging (80%)
SBF110: 8	30 h + 10 min	24 h
EN50131-6 grades 1-2	12 h	72 h
EN50131-6 grade 3	24 h	24 h
SSF1014 Alarm class 1/2	12 h	72 h
SSF1014 Alarm class 3/4	30 h	24 h

The table shows the requirements for backup operating time and recharging of batteries for different alarm classes.

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