PRODUCT SHEET

ECO power supply with battery backup

Product Identification

Table 1. Product designation, article number and e-number.

Product designation	Article number	E-number (SE)
ECO 24V 10A 2HE	2U02C10424P100	52 137 90

Technical description

Compact rack-mounted battery backup in 2 HE with 24 V, 10A and space for 2 × 12 V 20 Ah batteries, optimized for mounting in 19" racks.

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.	10A
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
Burglar alarm	✓	
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 1.5A
Voltage out	27.3 V DC, (24 V DC)

Load outputs

Table 5. Load outputs

Load outputs	
Number of load outputs	! 2[a.]

[a.] 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%)[a.]
10A	8A

[a.] 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?[a.]
0	✗

[a.] Relay, alternating potential-free contacts.

Table 8. Alarm over communication and on LED

Alarms	Indication[a.]
Alarm output is missing. Requires optional card: Relay/Communication Card ECO Series (CEO-FLX[b.]).	✗

[a.] Indication diode on main board and LED on box.

[b.] The optional board has two relay outputs.

Table 9. Alarm and protection

Alarm and protection	Yes	No
Battery charge protection/controlled charging[a.]		
Deep discharge protection, see Battery [1][b.]	✓	
Over-temperature protection	✓	
Short circuit protection	✓	

[a.] Controlled charging protects and extends battery life.

[b.] 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[a.]	✓		Works with PowerWatch provided the optional communication card is installed.
Indicators/LEDs			

[a.] PowerWatch consists of a cable and software, it is ordered separately.

PowerWatch Ready

The PowerWatch is available as an option for the product.

Battery

Table 11. Technical data - Batteries

Battery	
Ref. Batteries[a.]	2 x 20 Ah
Battery type	Maintenance-free AGM (lead-acid) batteries

[a.] 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	✗

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[a.]
88 x 244 x 280 mm	110 x 440 x 240mm

[a.] 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[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.

[a.] If the device is purchased through a wholesaler or other supplier, other warranty conditions may apply

[b.] 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)[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.

[a.] 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

Environmental data

Table 24. Environmental data

Environmental data	J/N	Informaţie	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	✗/✗/✗/✗/✓	No=Gold, Tungsten, Tantalum, Cobalt. Yes=Tin	Tin in solders in printed circuit boards purchased through a Swedish supplier.
Contains nanomaterials: EC 1272/2008	✗	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.		

Environ-mental data	J/N	Informaţie	Other. info.
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.		

[a.] Standby consumption and power.

CE

Manufacturer and country of origin

Table 25. Manufacturer and country of origin

Manufacturer[a.]	
Country of origin	

[a.] 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/

PowerWatch

Table 26. PowerWatch Ordering Information

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

Table 27. 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 28. 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	✓	✗	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	✓	✗	Plug may be connected without authorization. (Tukes, SFS 6000
Denmark	✓	✗	Plug may be connected without authorization. (Safety Board
Germany	✓	✗	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 29. 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 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 30. 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

[a.] Valid in case of completely unused battery stored under optimal conditions.

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