

# PRODUCT SHEET - POWER SUPPLY FROM MILLETEKNIK

## Product image



## Name, article number and e-number

Table 1. Name, article number and email number

| Name                | Item number     | E-number (sv) |
|---------------------|-----------------|---------------|
| Battery Shelf 24V M | BS010000024BM01 | 52 135 78     |

## Technical description

[sv] För utökad av reservdrifttid på batteribackup.  
Vägg eller rackmontage.

Table 2. Quick Facts

| Quick Facts            |              |
|------------------------|--------------|
| Supply voltage (V)     | [sv] 24 V DC |
| Batteries <sup>a</sup> |              |

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

## Areas of application

Table 3. [sv] Användningsområden

| Areas of application                                                                        | Yes | No |
|---------------------------------------------------------------------------------------------|-----|----|
| [sv] För att utöka reservdrifttiden på kompatibel strömförsörjning med större batteripaket. | ✓   |    |

## Electronics

Table 4. [sv] Elektriska data

| [sv] Elektriska data  |              |
|-----------------------|--------------|
| [sv] Matningsspänning | [sv] 24 V DC |

## Battery

Table 5. Technical data - Batteries

| Battery                            |                                             |
|------------------------------------|---------------------------------------------|
| Recommended Batteries <sup>a</sup> |                                             |
| Battery type                       | Maintenance-free AGM (lead-acid) batteries. |

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

Table 6. [sv] Batterier som kan användas

| [sv] Batterier som kan användas |
|---------------------------------|
| [sv] 2 x 45 Ah eller 2 x 28 Ah  |

## Enclosure and Mechanics

Table 7. Enclosure and Mechanics

| Enclosure and Mechanics |                            |
|-------------------------|----------------------------|
| Enclosure               |                            |
| IP class                | IP00                       |
| Material                | Powder coated sheet metal. |
| Colour                  |                            |

## Enclosure and Mechanics

|              |   |
|--------------|---|
| Height units | 5 |
|--------------|---|

## Assembly, installation and eligibility requirements

Table 8. Fitting

| Fitting   | [sv] Ja | [sv] Nej |
|-----------|---------|----------|
| 19" rack. | ✓       |          |

Table 9. Installation

| Installation        | Yes | No |
|---------------------|-----|----|
| Fixed installation. | ✓   |    |

## Dimensions, weight and packaging information

Table 10. Dimensions

| Dimensions, (WxHxD). | Dimensions with packaging <sup>a</sup> . |
|----------------------|------------------------------------------|
| 215 x 438 x 200 mm   | 550 x 500 x 300 mm                       |

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

Table 11. Weight

| Net weight | Weight with packaging |
|------------|-----------------------|
| 3.3 kg     | 3.6 kg                |

Table 12. Packaging

| Packaging                               |                                                                                                                    |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Packaging                               | Cardboard and impact protection in cardboard.                                                                      |
| 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                                                                                                   |

## Fits

Table 13. Number of battery shelves that can be connected.

| Product series | Enclosure size | Number of battery shelves that can be connected |
|----------------|----------------|-------------------------------------------------|
| EN54           | 1U / 2U        | 4, max 300 Ah.                                  |

## About this information

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## [SV] COMPLIANCE OCH REGELEFTERLEVNAD

### Delivery time, warranty and terms

Table 14. Delivery time, warranty and terms

| Delivery time, warranty and terms |                                                                                                                                                        |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Warranty period <sup>a</sup>      | [sv] Produkten har två (2) års garanti mot tillverkningsfel.                                                                                           |
| 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 15. Operation

| Operation                                        | Data                          | Other. info                                                                                     |
|--------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------|
| Environment                                      | Indoor environmental class 1. |                                                                                                 |
| Operating temperature (recommended)              | +15°C to +25°C                | For the best battery life. Higher temperatures significantly shorten the life of the batteries. |
| 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, free distance around 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 16. Maintenance

| Yes | No | Interval | Other. info       |
|-----|----|----------|-------------------|
|     | ✓  |          | Maintenance-free. |

### Certifications and approvals

Table 17. Approved according to

| Complies with  | Directives                            |
|----------------|---------------------------------------|
| C.E.           | CE marking according to (EC) 765/2008 |
| EMC            | EMC Directive 2014/30/EU              |
| Electric (LVD) | Low Voltage Directive: 2014/35/EU     |

### Environmental data

Table 18. Environmental data

| Environmental data                             | J/N     | Informație                                                                                                                                     | 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 |         | Yes, see the DoC at <a href="http://www.milleteknik.se">www.milleteknik.se</a> . The product complies with REACH Regulation (EC) No 1907/2006. | If empty, the product is not covered.                                                                              |
| SVHC substances, CAS/EC                        |         | Yes, lead, 7439-92-1/231-100-4                                                                                                                 | 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   |         | Yes, see the DoC at <a href="http://www.milleteknik.se">www.milleteknik.se</a>                                                                 |                                                                                                                    |
| WEEE 2012/19/EU                                | ✓       | The product contains electrical components or wiring and is covered by the WEEE Directive (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              | X       |                                                                                                                                                |                                                                                                                    |
| SCIP No 2008/98/EC                             |         | Yes, registered under the EU Waste Directive where applicable, (2008/98/EC).                                                                   | If empty, no SCIP number is needed.                                                                                |
| Conflict minerals (EU) 2017/821                | X/X/X/X | No=Gold, Tungsten, Tantalum, Cobalt, Tin.                                                                                                      |                                                                                                                    |
| Contains nanomaterials: EC 1272/2008           | X       | The product does not contain nanomaterials.                                                                                                    |                                                                                                                    |

| Environ-<br>mental<br>data                                                                                                                                     | J/N | Informație                                                                                                                                                                                                                                                                                                              | Other. in-<br>fo. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Ecodesign<br><br>2009/125/<br>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<br>Directive<br><br>2006/42/E<br>C                                                                                                                     |     | <p>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).</p> <p>Will be replaced by Machinery Regulation (EU) 2023/1230, which will apply in 2027.</p>                                         |                   |
| The product is designed for a long service life, which reduces the environmental impact. End-of-life products are handed over to the nearest recycling centre. |     |                                                                                                                                                                                                                                                                                                                         |                   |

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



#### Manufacturer and country of origin

Table 19. Manufacturer and country of origin

| Manufacturer and origin   |                |
|---------------------------|----------------|
| Manufacturer <sup>a</sup> | Milleteknik AB |
| Customs State. Nos.       | 85043180       |
| Country of origin         | Sweden         |

<sup>a</sup>Manufacturer is the trademark indicated on the product, regardless of what is stated in this product sheet.

## [SV] BILAGA

### [sv] Behörighetskrav, installation

[sv] Krav på behörighet varierar mellan länder. Tabellen sammanfattar nationella krav för fast installation respektive anslutning av utrustning med stickkontakt.

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

| Permis-<br>sion Re-<br>quire-<br>ments<br>for In-<br>stalla-<br>tion | Fixed<br>instal-<br>lation<br>(230<br>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)                                                                                                                                                                  |
| Den-<br>mark                                                         | ✓                                        | x    | Plug may be connected without authorization. (Safety Board)                                                                                                                                                                     |
| Germa-<br>ny                                                         | ✓                                        | 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") |

### [sv] Referenstabell: miljöklasser enligt EN 50130-5 (som hänvisas till i EN 50131-6)

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

| Class                 | Type                                                                        | Tempera-<br>ture 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         |

### [sv] Referenstabell: tillverkares angivna livslängd och rekommenderat batteribyte

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

| Battery Type (De-<br>sign Life) <sup>a</sup> | Battery re-<br>placement<br>time in nor-<br>mal opera-<br>tion, +20°C. | Replace-<br>ment dur-<br>ing hot op-<br>eration,<br>+30°C | Replace-<br>ment dur-<br>ing hot op-<br>eration,<br>+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.

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