

PRODUCT SHEET - POWER SUPPLY FROM MILLETEKNIK

EN54-4 Certified / SBF110:8 Approved battery backup

EN54 24V 1,5A MX S / EN54 24V 5,5A MX M / EN54 24V 7,5A MX L



EN54 battery backup for wall mounting.

Name, article number, e-number and certificate number

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Name	Article number	E-number
EN54 24V 1,5A MX S	C000P00024P015-EN54	52 135 45
EN54 24V 5,5A MX M	C010P00024P055-EN54	52 136 30
EN54 24V 7,5A MX L	C010P00024P075-EN54	52 136 31

Description

EN54-4 Certified battery backup 24 V, 1.5 A, with room for two 7.2 Ah batteries.

EN54-4 certified battery backup 24 V, 5.5 A, with room for two 20 Ah batteries.

EN54-4 Certified battery backup 24 V, 7.5 A, with room for two 45 Ah batteries.

Area of use

EN54 MX supplies power to external alarms in fire alarms and is certified for use with smoke doors. The rectifier in the power supply converts 230 V DC down to 24 V DC. EN54 MX is EN54-4 and EN12101-10 certified.

Batteries drive, for example, the access system, when the power grid goes down.

Long life, energy efficient and support is available if something goes wrong, now or in 10 years.

Common uses

- Used in fire alarm systems according to EN54-4 and SBF 110:8 for safe backup power.
- Provides fire alarm centers, sirens, spoken evacuation alarms and other fire safety equipment.

- Suitable for installation in schools, hotels, shopping malls and other buildings requiring certified fire alarm solution.

Voltage, current and power

Mains voltage: 230 V AC - 240 V AC, 47 Hz - 63 Hz.

Self-consumption is the power outlet the circuit board has when the system is deployed and in battery operation.

Self-consumption

Circuit Boards	Self-consumption (in battery operation)	Comments
EN54 24V 1.5A MX S	14.7 mA	
EN54 24V 5.5A MX M	21 mA	
EN54 24V 7.5A MX M	Data is missing.	

Voltage out: 27.3 VDC, (24 V).

Charging current: 1 A. 2 A.

Power outlet: 1.5 A. 5.5 A. 7.5 A.

Load outputs

Two load outputs.

Alarm

Alarms are given for: Disconnected batteries, charger error undervoltage, charger error overvoltage, low battery voltage, mains interruption and fuse error.

Alarms can also be sent over communication to sub-central.

Protection

Controlled charging of batteries protects against overcharging and extends the life of batteries. Batteries are charged with the most

Protection against: Deep discharge of batteries, short circuit, overload, overvoltage and overtemperature

Fuses

Mains fuse: 4 A. 6.3 A.

Load securing: 2 A. 3.15 A. 6.3 A. 10 A.

Battery fuse: 6.3 A. 8 A. 10 A.

Battery and battery type

Battery type: 12 V, AGM lead-acid battery, maintenance-free. Batteries not included. Battery sizes must not be mixed.¹

2 pieces 7.2 Ah battery.

2 pieces, 20 Ah, battery.

Two 45 Ah batteries.

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/

Enclosure

Sheet metal cabinet for wall mounting. Powder coated red. Six cable entries.

Sheet metal cabinet for wall mounting. Powder coated black. Six cable entries.

Dimensions, with and without packaging.

Dimensions, height x width x depth. ^a	Dimensions with packaging.
250 x 340 x 80 mm	100 x 350 x 260 mm
356 x 395 x 96 mm	120 x 415 x 390 mm
356 x 455 x 187 mm	210 x 470 x 370 mm.

^aDimensions of product and packaging may differ, this is because the product may lie differently in the packaging.

Height units, fan and IP class.

HE	Built-in fan	IP class
6 ^a .	No	IP20
8 ^b .	No	IP20
8 ^c .	No	IP20

^aCannot be mounted in a 19" rack.

^bCannot be mounted in a 19" rack.

^c.

Weight

Weight.

Name	Net weight	Weight incl. packaging
Battery backup EN54 24V1.5A S	3.1 kg	4.1 kg
Battery backup EN54 24V 5.5A M	4.5 kg	5.5 kg

¹The number of batteries listed represents the maximum number that the device can handle at the same time. If multiple battery sizes are specified, this means that the device can only accommodate one battery size at a time.

Name	Net weight	Weight incl. packaging
Battery backup EN54 24V 7.5A L	7.2 kg	8.2 kg

Installation requirements

The device is intended for fixed installation. The unit must be installed indoors, environmental class 1, ambient temperature: +5°C to +40°C. Recommended ambient temperature is +15°C to +25°C (for optimal battery life).

Requirements that the product meets

The product meets the following requirements.

EMC:	EMC Directive 2014 / 30EU
Electricity:	Low voltage directive: 2014/35 / EU
CE:	CE directive according to: 765/2008



NOTE

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).



Guarantee

The product has a two-year warranty for manufacturing defects. Batteries and wearing parts are not covered by warranty.

Expandable, options and accessories

The product can be extended with a: [6 output modules](#).

Manufacturing, lifespan, environmental impact and recycling

Made in the EU.

The product is designed and constructed for a long service life, which reduces the environmental impact. The life of the product (except wearing parts) depends on, among other things, environmental factors, mainly ambient temperature, un-

foreseen load on components such as lightning strikes, external impact, handling errors, etc. Products are recycled, simply because they are modular, by being left at the nearest recycling station or sent back to the manufacturer.²Contact your distributor for more information.

Link to the latest information

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

[EN54](#)

Link to technical specifications

LINKS TO MANUALS AND PRODUCT SHEETS

You can find manuals and product sheets at: www.milleteknik.se The QR code below takes you to the product page.

Name	Dimensions	Batteries that fit	Link
EN54 24V 1,5A MX S	250 x 340 x 80 mm	2 pcs 7.2 Ah	
EN54 24V 5,5A MX M	356 x 395 x 96mm	2 pcs. 20 Ah	
EN54 24V 7,5A MX L	455 x 356 x 187 mm	2 pcs. 45 Ah	

Batteries not included.

About this information

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

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²Costs incurred in connection with recycling are not reimbursed.