

## PRODUCT SHEET - POWER SUPPLY FROM MILLETEKNIK

EN54-4 Certified / SBF110:8 Approved battery backup

EN54 FLX M



The battery backup can be mounted on a wall or in a 19" rack.

Name, article number, e-number and certificate number

Name	Article number	E-number
EN54 24V 5A FLX M	FM01P20024P050-EN54	52 135 51
EN54 24V 10A FLX M	FM01P20024P100-EN54	52 135 52
EN54 24V 15A FLX M	FM01P20024P150-EN54	52 135 53
EN54 24V 25A FLX M	FM01P20024P250-EN54	52 135 54

### Description

Primary switched battery backup, 24 V, 5 A, with room for two 20 Ah batteries.

Primary switched battery backup, 24 V, 10 A, with room for two 20 Ah batteries.

Primary switched battery backup, 24 V, 15 A, with room for two 20 Ah batteries.

Primary switched battery backup, 24 V, 25 A, with room for two 20 Ah batteries.

### Area of use

EN54 powers fire alarms with 24 V DC. The rectifier in the power supply converts 230 V AC down to 24 V DC and supplies power to all important parts of the fire alarm system. Batteries continue to power the fire alarm system when the power goes down. EN54 power supply is certified to be used in security facilities that must meet EN54-4 or be approved for SBF 110:8.

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.

### Voltage, current and power

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

Voltage out: 27.3 VDC, (24 V).

Charging current: 5 A. 10 A.

Power outlet: 5A. 10 A. 15 A. 25 A.

### Load outputs

Two load outputs.

### Alarm

Alarms can be given on four outputs: Disconnected batteries, delayed mains failure alarm, charger error overvoltage, charger error undervoltage, low battery voltage, low system voltage, fuse error and aged battery.

### Protection

Controlled charging of batteries protects against overcharging and extends the life of batteries. Batteries are charged with a maximum of 0.5 A.

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

### Fuses

Mains fuse: 2.5 A. 4 A.

Load securing: 5 A. 10 A. 15 A. 25 A.

Battery fuse: 16 A and 30 A.

### Indications and communication

LED displays information and alarms on the circuit board and on the enclosure door.

LED displays information and alarms on the circuit board, on the enclosure door and via communication to the UC.

### Battery and battery type

2 pieces, 20 Ah, battery.

Battery type: 12 V, AGM lead-acid battery, maintenance-free. Batteries not included.

### 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/)

### Enclosure

Sheet metal cabinet for wall mounting or in a 19" rack cabinet (5 HE). Powder-coated black. Four cable entries on the top and outlet holes on the back. Cable tie holder in enclosure.

Dimensions, height x width x depth	Built-in fan	IP class
224 x 437 x 212 mm	Yes	IP32

### Weight

Name	Net weight	Weight incl. packaging
Battery backup EN54 24V10A FLXM	10 kg	11 kg
Battery backup EN54 24V15A FLXM	11 kg	12 kg
Battery backup EN54 24V25A FLXM	12 kg	13 kg
Battery backup EN54 24V5A FLXM	8 kg	9 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

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



### Standards that product (s) meet and are approved for

#### EN54

EN 54-4:1997, EN 54-4:1997/AC:1999, EN 54-4:1997/A1:2002 and EN 54-4:1997/A2:2006.
EN50131-6 Security Grade 3 (1-3).

### Certificate and certificate number

Certificate number, SBSC	Designation SBSC
No. 18-243	-

<sup>1</sup>Costs incurred in connection with recycling are not reimbursed.

### Area of use

EN54 is used for fire alarm systems in public environments such as schools, offices and commercial properties.



### Guarantee

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

### Expandable, options and accessories

The product can be expanded with two pieces: [2+2 Output module](#) or [5 Output module](#) or [10 Output Module](#) or [8 Output control module](#) or [Fire module 4 outputs](#) or [Voltage Converter 24V-12V 2A](#) or [Voltage Converter 24V-12V 6A](#).

### Tamper switch

Plate for attaching the tamper switch to the wall to meet the alarm class for [FLX S](#) and [FLX M](#) and [FLX L](#).

### Manufacturing, lifespan, environmental impact and recycling

Manufactured by Milleteknik in Partille, Sweden.

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, unforeseen 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.<sup>1</sup>Contact 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

### About this information

All information is published subject to possible errors. This document is updated without notice.