

Battery backup EN54 MX Series



The **EN54 MX series** is mainly used in fire alarm systems where an EN54-4 approved battery backup is required.

CONTROLLED CHARGING

The EN54 MX series offers **CONTROLLED CHARGING** which means that the batteries never charge more than needed. This prevents the batteries from overcharging and extends their life significantly.

BATTERY CHANGE INDICATION

The system is also equipped with internal power resistors for qualified battery capacity test, which announces when the batteries need to be replaced before the batteries are aged.

Expected backup operating time at
below conditions

@ Currency

System Voltage	Batteries	0,5A	1A	2A	4A
24V	2x 7,2Ah	12h	5h	2h	45min
24V	2x 20Ah	35h	18h	9,5h	3,5h
24V	2x 45Ah	79h	40h	20h	12h

Technical data

EN54 24V 1,5A MX S

EN54 24V 4A MX M

EN54 24V 5,5A MX L

Recommended environment and the product's enclosure:

Recommended environment:	Environment Class 1, Inhouse, 20% ~ 90% relative humidity		
Ambient temperature:	+5 °C - 40 °C (For optimal battery life +15 °C - +25 °C)		
Protection class:	IP42		
Recommended mounting:	Wall or Rack		
Dimension (HxWxD):	250x340x80mm	356x395x96mm	455x356x187mm
Net weight:	3,1kg	4,2kg	6,9kg
Number of cable penetrations:	4pcs	7pcs	7pcs
The color of the enclosure:	Red		
Built in fan for cooling:	No		

Electrical information:

Input voltage:	110V-264VAC/47-63Hz		
Output voltage:	27,1VDC		
Load current I _{max a} :	1,1A	3,2A	3,8A
Load current I _{max b} :	1,5A	4A	5,5A
Charge current:	0,5A	1A	2A
Rated power:	36W	100W	156W
Ripple at normal operation:	150mVp-p	150mVp-p	200mVp-p
Efficiency:	88%	90%	89%
Input current:	0,42A	1,2A	1,7A
Number of fused outputs:	2pcs		
Type of fuse output:	2xF1,5A (glass)	2xF4A (glass)	2x F6,3A (glass)
Deep-discharge protection occurs at:	21V		
Possible to connect in parallel:	YES		
Protection against:	Overload, Overvoltage, Overtemperature, Short circuit and Deep discharge		
Alarm functions (3 outputs):	Power failure, Low battery voltage, Aged batteries, Disconnected battery, Charger fault, Triggered load fuse. Optional: Tamper alarm.		
Alarm through:	Alternating relay		

Article information:

Article name:	EN54 24V 1,5A MX S	EN54 24V 4A MX M	EN54 24V 5,5A MX L
Article number:	C000P00024P015-EN54	C000P00024P040-EN54	C000P00024P055-EN54
E-number:	5213545	5213546	5213547
Certificate name:	ZSP100-1,5A-07	ZSP100-4,0A-18	ZSP100-5,5A-40
The product meets and are certified according to:	EMC Directive 2014/30EU, Low Voltage directive: 2014/35/EU CE directive according to 765/2008, Emission: EN61000-6-2:2001, EN55022:1998--A1:2000, A2:2003 Class B, EN61000-3-2:2001. Immunity: EN61000-6-2:2005, EN61000-4-2, -3, 4, -5, -6, -11. EN 54-4:1997, EN 54-4:1997/AC:1999, EN 54-4:1997/A1:2002 and EN 54-4:1997/A2:2006 & EN12101-10		
Certification no:	18-243		
Warranty period:	3 years		
Designed and produced by:	MERAWEK Sp. z o.o.		
Country of origin:	Poland		

Information and choice of battery / batteries:

Designated battery type:	12V Maintenance-free batteries, type AGM		
Possible battery types:	2x 7,2Ah batteries	2x 7,2Ah or 2x 20Ah batteries	2x 28 or 2x 45Ah batteries
Recommended batteries:	UPLUS 10+ Design Life batteries		
Article number batteries:	MT113-12V07-01	MT113-12V20-01	MT113-12V45-01

Approved average load according to EN54-4 / SBF110:8:

Article name:	EN54 24V 1,5A MX S	EN54 24V 4A MX M	EN54 24V 5,5A MX L
	1,1A	3,2A	3,8A