ABOUT BATTERY BOX 24V FLX S AND BATTERY BOX 24V FLX M - AREA OF USE

Battery box 24V FLS S and Battery box 24V FLX M



The battery box can be mounted in a 19" rack or on a wall. The enclosure is lockable and two pairs of keys are included.

A battery box is used to extend the reserve operating time of a battery backup or to allow for higher currents in a rated system. You can find more about possible average currents in the battery backup's manual.



BATTERIES AND CERTIFICATES

Batteries must be new during installation and battery replacement in order to maintain warranty and certified standards.

Always use the same (type and manufacturer) batteries with which the device is certified.

Manufacturer support

Manufacturers provide support for the life of the product, however, for a maximum of 10 years after the date of purchase. Switching to an equivalent product may occur if the manufacturer deems that repair is not possible. Support costs will be added after the warranty period has expired.

Product life cycle, environmental impact and recycling

The product is designed and constructed for a long service life, which reduces the environmental impact. The product's service life depends on, among other things, environmental factors, mainly ambient temperature, unforeseen load on components such as lightning strikes, external damage, handling errors, and more. Products are recycled by being handed over to the nearest recycling station or sent back to the manufacturer. Contact your distributor for more information. Costs that arise in connection with recycling are not reimbursed.



TEKNISKA DATA BATTERY BOX 24V FLX S BATTERY BOX 24V FLX M

System voltage:	24 V.
Battery capacity, Battery box 24V FLX S	Two 7.2 Ah or two 14 Ah.
Battery capacity, Battery box 24V FLX M	Two 45 Ah.
Battery type:	AGM lead acid.
Enclosure:	Powder coated sheet.
Mounting:	Wall or 19 "rack.
Country of manufacture	Sweden

BATTERY BOX WARRANTY

The product has a five-year warranty, from the date of purchase. Support during the warranty period is reached via the contact information on the CE label. Compensation for travel and / or working hours in connection with locating faults, installing repaired or replaced goods is not included in the guarantee. Batteries are not covered by the warranty.

CE MARKING

Each product has a CE label with information about the product and contact information for the manufacturer. If you are missing something or need more information, you should firstly turn to retailers who will also be able to answer questions about warranty and support. You can always contact the manufacturer if you have questions about the product's performance.



TECHNICAL DATA ENCLOSURES

Enclosures - Technical Data FLX S

Info	Explanation
Name	FLX S
Enclosure class	IP 32
Measure	Height: 222 mm, width 437 mm, depth 145 mm
Height units	5 HE
Mounting	Wall or 19 "rack
Ambient temperature	+ 5 ° C - + 40 ° C. For best battery life: + 15 ° C to + 25 ° C.
Environment	Environmental class 1, indoors. 20% ~ 90% relative humidity
Material	Powder coated sheet
Color	Black
Cable entries, number	4
Batteries that fit	2 pcs 7.2 Ah or
	4 pcs 14 Ah.
Place for fan	Yes

Enclosures - Technical Data FLX M

Info	Explanation
Name	FLX M
Enclosure class	IP 32



Info	Explanation
Measure	Height: 224 mm, width 438 mm, depth 212 mm
Height units	5 HE
Mounting	Wall or 19 "rack
Ambient temperature	+ 5 ° C - + 40 ° C. For best battery life: + 15 ° C to + 25 ° C.
Environment	Environmental class 1, indoors. 20% ~ 90% relative humidity
Material	Powder coated sheet
Color	Black
Cable entries, number	4 Knockout for Battery connector
Batteries that fit	
	2 pcs 12 V, 45 Ah.

TECHNICAL DATA: TAMPER SWITCH

Name	T-Tamperswitch
Article num- ber	A-000000SAB01
Туре	Microswitch
Voltage	12 V / 24 V
Note:	RoHS compliance for all products is based on documentation from the manufacturer that the article complies with the RoHS directive. Milleteknik has taken all reasonable steps to confirm the manufacturers' documentation and reviwed other evidence of non-compliance with the banned substances in order to support the manufacturer's compliance claim. Based on the knowledge we have, the above mentioned articles complies to RoHS according to the manufacturer's documentation.

BATTERY RECYCLING

All batteries must be recycled. Return to manufacturer or return to recycling station.



BATTERIES - RECOMMENDED, NOT INCLUDED

Batteries are not included they are sold separately

Batteries are sold separately.

Battery combinations Battery box 24V FLX S and battery backup (14 Ah batteries)

Battery capacity (Ah)	Battery type	Number of batteries	Batteries in unit
14 Ah	14 Ah	2 pcs.	2 in Battery Backup
42 Ah	14 Ah	6 pcs	2 in Battery Backup
			4 in Battery Box
70 Ah	14 Ah	10 pieces.	2 in Battery Backup
			4 in Battery Box
			4 in battery box 2

Battery combinations Battery box 24V FLX M and battery backup (20 Ah batteries)

Battery capacity (Ah)	Battery type	Number of batteries	Batteries in unit
20 Ah	20 Ah	2 pcs	2 in Battery Backup
45 Ah	45 Ah	2 pcs	0 in Battery Backup
			2 in Battery Box 1

Battery capacity (Ah)	Battery type	Number of batteries	Batteries in unit
65 Ah	20 Ah +	4 st	2 in Battery Backup
	45 Ah		2 in Battery Box 1
90 Ah	45 Ah	4 st	0 in Battery Backup
			2 in Battery Box 1
			2 and Batteribox 2
110 Ah	20 Ah +	6 st	2 in Battery Backup
	45 Ah		2 in Battery Box 1
			2 and Batteribox 2
135 Ah	45 Ah	6 st	0 in Battery Backup
			2 in Battery Box 1
			2 and Batteribox 2
			2 and Batteribox 3
155 Ah	20 Ah +	8 st	2 in Battery Backup
	45 Ah		2 in Battery Box 1
			2 and Batteribox 2
			2 and Batteribox 3
180 Ah	45 Ah	8 st	0 in Battery Backup
			2 in Battery Box 1
			2 and Batteribox 2
			2 and Batteribox 3
			2 and Batteribox 4
200 Ah	20 Ah +	10 pieces	2 in Battery Backup
	45 Ah		2 in Battery Box 1
			2 and Batteribox 2
			2 and Batteribox 3
			2 and Batteribox 4

Battery combinations Battery box 24V FLX M and battery backup (45 Ah batteries)

Battery capacity (Ah)	Battery type	Number of batteries	Batteries in unit
45 Ah	45 Ah	2 pcs.	2 in Battery Backup
90 Ah	45 Ah	4 pcs	2 in Battery Backup
			2 in Battery Box 1
155 Ah	45 Ah	6 pcs	2 in Battery Backup
			2 in Battery Box 1
			2 and Batteribox 2
180 Ah	45 Ah	8 pcs	0 in Battery Backup
			2 in Battery Box 1
			2 and Batteribox 2
			2 and Batteribox 3
225 Ah	45 Ah	10 pieces.	2 in Battery Backup
			2 in Battery Box 1
			2 and Batteribox 2
			2 and Batteribox 3
			2 and Batteribox 4

Certified with battery type

The device is certified with a UPLUS battery that must be used to maintain the certificate.

7.2 Ah, 12 V AGM battery

Fits in	Number of batteries		
Batterybox 24V FLX S	4		
Battery type V A			

Maintenance-free AGM, lead-acid battery. 12 V 7.2 Ah

10+ Design life * battery

Article number	E-number	Article name	Terminal	Measure. Height width depth	Weight per piece	Make
MT113-12V07-01	5230536	UPLUS 12V 7.2Ah 10+ Design Life battery	Flat pin 6.3 mm	151 x 65 x 100 mm.	2.4 kg	UPLUS

^{*} Design Life is the durability this year for unused battery. Environmental factors such as heat and load affect service life. Batteries that have a durability (+10 Design ILife) of 10+ years usually need to be replaced after 4-5 years.

14 Ah, 12 V AGM battery

Fits in	Number of batteries			
Batterybox 24V FLX S	4			
Battery type		V	Ah	
Maintenance-free AGM, lead-acid battery	12 V	14 Ah		

10+ Design life * battery

Article number	E-number	Article name	Terminal	Measure. Height width depth	Weight per piece	Make
MT113-12V14-01	5230537	UPLUS 12V 14Ah 10+ Design Life battery	Flat pin 6.3 mm	151x98x101 mm	4.2 kg	UPLUS

^{*} Design Life is the durability this year for unused battery. Environmental factors such as heat and load affect service life. Batteries that have a durability (+10 Design ILife) of 10+ years usually need to be replaced after 4-5 years.

45 Ah, 12 V AGM battery

Fits in		Number of batteries	3
Batterybox 24V FLX M	2		
Battery type	V	Ah	
Maintenance-free AGM, lead-acid battery.	12 V	45 Ah	

10+ Design life * battery

Article number	E-number	Article name	Terminal	Measure. Height width depth	Weight per piece	Make
MT113-12V45-01	5230546	UPLUS 12V 45Ah 10+ Design Life battery	M5 Bult	197x165x170 mm	14.5 kg	UPLUS

^{*} Design Life is the durability this year for unused battery. Environmental factors such as heat and load affect service life. Batteries that have a durability (+10 Design ILife) of 10+ years usually need to be replaced after 4-5 years.

Reserve operating times for different alarm classes - overview

The table shows the requirements for backup operating time and recharging of batteries for different alarm classes.

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IMPORTANT

This is a guide and all times are approximate and may differ from actual times. Load, temperature and other factors come into play, which is why exact time can not be provided.

Applies to new batteries.

Amperage and batteries vary with configuration, check if the configuration can handle batteries and amperage.

Backup operating times 24 V units - with battery box, 28 Ah - 70 Ah

Medium current	28 Ah	42 Ah	65 Ah	70 Ah		
-	4 batteries	6 batteries	4 batteries	10 batteries		
	(14 Ah)	(14 Ah)	(20Ah + 45 Ah)	(7 Ah)		
Loading		Backup operating time (approx.), Minutes				
0.5 A	1650	2090	5574	3440		
1 A	970	865	3252	2118		
2 A	560	815	1770	1329		
4 A	335	490	930	864		
6 A	245	360	600	605		
8 A	210	310	426	544		
10 A	160	240	342	414		
12 A	140	210	270	363		
14 A	120	180	234	311		
16 A	100	150	204	286		
18 A	90	130	150	254		
20 A	84	126	138	241		

Backup operating times 24 V units - with battery box, 90 Ah - 155 Ah

Medium current	90 Ah	110 Ah	135 Ah	155 Ah	
-	4 batteries	6 batteries	6 batteries	8 batteries	
	(45 Ah)	(20 Ah + 45 Ah)	(45 Ah)	(20 Ah + 45 Ah)	
Loading	Backup operating time (approx.), Minutes				
0.5 A	4705	5796	7056	8215	
1 A	2928	3582	4392	5070	
2 A	1836	2247	2754	3230	
4 A	1183	1438	1762	2018	
6 A	788	959	1175	1345	
8 A	748	861	1048	1150	
10 A	570	689	839	920	
12 A	499	603	699	765	
14 A	427	516	629	655	
16 A	404	499	592	590	
18 A	359	444	526	520	
20 A	340	420	498	495	

Backup operating times 24 V units - with battery box, 180 Ah - 225 Ah

Medium current	180 Ah	200 Ah	225 Ah
-	8 batteries	10 batteries	10 batteries
	(45 Ah)	(45 Ah) (20 Ah + 45 Ah)	
Loading	Backup operating time (approx.), Minutes		
0.5 A	9408	12972	11760
1 A	5856	7872	7320



Medium current	180 Ah	200 Ah	225 Ah
2 A	3672	4548	4590
4 A	2365	2670	2945
6 A	1577	1780	1960
8 A	1500	1558	1800
10 A	1140	1246	1410
12 A	950	1038	1200
14 A	855	890	1055
16 A	810	902	995
18 A	715	802	885
20 A	680	722	840

Subject to typos.