PRODUCT SHEET / TECHNICAL DATA

Technical specifications

These technical specifications are subject to change without notice.

Name, article number and e-number

Name	Article number	E-number (SV)	
ECO 24V 1 A S	SM01C10324P010B02	52 136 59	

About

The ECO series are reliable and smaller battery backups for use with access control systems, locking systems and other loads. The battery backups have controlled charging *.

- * Controlled charging prevents batteries from being overcharged, which significantly extends their service life.
- · For AGM batteries.
- · Can be tested with only batteries connected.
- · Has controlled charging for better operating economy.
- · Comes with batteries.

Unique for ECO 24V 1A S

ECO 24V 1A S has the option of being supplemented with an external control to cut off the current at the load output.

ECO 24V 1A S is delivered including 2 pcs. 2.3 Ah 6+ Design Life batteries.



NOTE

Note that ECO 24V 1A S has no alarm output, only visual alarm via LED.

Areas of use

Most used in:

Test before installation of 230 V

"Cold start" means that the battery backup can be commissioned with only the batteries connected without the battery backup being connected to 230 V. This is practical if the installer is not a qualified electrician but still wants to be able to test the system.

Fixed installation

The product is intended for fixed installation. The battery backup must be installed by a qualified installer.

2024-04-19 milleteknik

REGULATIONS AND CERTIFICATIONS

Requirements that the product meets

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





EXPECTED OPERATING TIME IN THE EVENT OF A POWER FAILURE (WITH NEW BATTERIES)

Expected operating time in the event of a power failure (applies to new batteries):

System voltage	Number of batteries	Battery type	Load: 0.1 A	Load: 0.3 A	Load: 0.6 A	Load: 1 A	Load: 1.5 A	Load: 2 A
24 V	2 pcs	2.3 Ah	12 h	4 h	2 h	1 h	40 min	20 min
24 V	2 pcs	4.5 Ah	24 h	8 h	4 h	2 h	1.5 h	40 min

CIRCUIT BOARDS - TECHNICAL DATA

Technical data: CEO 3

CEO3 V 2.5

Info	Explanation	
Article title	Article title CEO3	
Measure	120 x 55 mm x 52 mm	
Own consumption	40 mA	
Outputs	Output: four load outputs 1-4 which are prioritized load outlets. (= always voltage).	
Insurance	Load output: + secured.	
Max load	Maximum load is 1 A per load output, (T2A is mounted from the factory).	

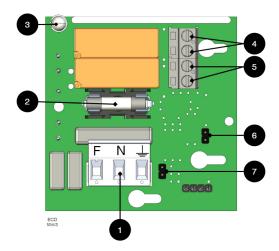
TECHNICAL DATA: CEO 3



DANGER

Mains voltage must be disconnected when working with stripped cables. It is the installer's responsibility to ensure that the correct skills are available for connecting 230 V to the unit. Maximum cable area is $4~\rm mm^2$

ECO Mini3



Connections

Nr	In short	Explanation		
1	P1: 1-3	Connection to mains, 230 V.		
2	F6	Load securing: T2A.		
3	D1	Indicator diode, see table below.		
4	P2: 3-4	Connect remote control of load output. Shipped assembled with jumper. If the jumper is removed, the load output, see 5 below, is switched off (becomes de-energized)		
5	P2: 1-2	Connect load.		
6	JU2	JU2 with jumper = 24.0 V. JU 2 without jumper = 26.5 V. The unit is delivered without jumper on JU2.		
7	JU1	JU1 with jumper = alarm on buzzer. The unit is delivered with jumper on JU1. The device is delivered without a buzzer. JU1 without jumper = No alarm on buzzer.		

Indications and alarms

Nr	In short	Indicator diode	Buzzer	Explanation
3	D1	Green	No	OK - normal operation.
		Yellow / orange	Yes if JU1 has a jumper.	Power failure / low battery voltage. Controlled via jumper on JU2.
		RED	Yes if JU1 has a jumper.	Triggered load securing

POWER SUPPLY

Power supply - Technical Data RS-25-24

In:				
ECO 24V 1A S				
Output voltage	27.3 V			
Output current	0 A - 1.1 A			
Output voltage, ripple	120 mVp-p			
Overvoltage	22 V - 27.64 V			
Voltage recharge, ripple / current limitation	Less than 0.6 Vp-p			
Efficiency	84 %			
Current limitation	110% - 180%			
Constant voltage	+/- 1.0%			
Regulatory accuracy	* / - 0.5%			
Input current (230 V)	0,4 A			
Mains voltage frequency	47 Hz- 63 Hz			
Mains voltage	85 V AC - 264 V AC			
Brand effect	26.4 W			
Temperature range	-20°C - +70°C			
Humidity range	20% - 90% RH non-condensed			

2024-04-19 milleteknik[®]

The power supply is adapted and calibrated with the battery / hardware of the battery backup. Only power and calibrated power supplies may be used. Contact support when changing power supplies. Use of power supplies coming from another source may cause damage not covered by the warranty. Warranty is canceled if power supplies (from a source other than support / designated by support) that are not correctly calibrated are used.

2.3 AH, 12 V AGM BATTERY

Battery type	V	Ah
Maintenance-free AGM, lead-acid battery.	12 V	2.3 Ah

6+ Design life * battery

Article number	E-number	Article name	Terminal	Measure. Height width depth	Weight per piece	Make
MT113-12V02-01	5230578	UPLUS 12V 2.3Ah 6+ Design Life battery	Flat pin 4.8 mm	60x178x35 mm	1.0 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 (+6 Design ILife) of 6+ years usually need to be replaced after 2-3 years.

TECHNICAL DATA ENCLOSURES

Enclosures - Technical Data S

Info	Explanation			
Name	S			
Enclosure class	osure class IP 20			
Measure	Height: 230 mm, width: 216 mm, depth: 85 mm.			
Height units	•			
Mounting	Wall			
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 White				
Cable entries, number 3				
Batteries that fit	1 pc 12 V 2.3 Ah or			
	2 pcs 12 V 2.3 Ah or			
Place for fan	No			

LINK TO THE LATEST INFORMATION

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

ECO

WARRANTY, SUPPORT, COUNTRY OF MANUFACTURE AND COUNTRY OF ORIGIN

Warranty

The product has a two-year warranty, from the date of purchase (unless otherwise agreed). Support during the warranty period can be reached at support@milleteknik.se or telephone, +46 31-34 00 230. Compensation for travel and / or working hours in connection with locating faults, installing repaired or replaced goods is not included in the warranty. Contact Milleteknik for more information. Milleteknik provides support during the product's lifetime, however, no later than 10 years after the date of purchase. Switching to an equivalent product may occur if Milleteknik deems that repair is not possible. Support costs may (at Milleteknik's discretion) occour after the warranty period has expired.

milleteknik® 2024-04-19

Support

Do you need help with installation or connection?

You will find answers to many questions at: www.milleteknik.se/support

Phone: +46 31-340 02 30

Support is open: Monday-Thursday 08:00-16:00, Fridays 08:00-15:00. Closed 11:30-13:15.

SPARE PARTS

Contacted support for questions about spare parts.

SUPPORT AFTER THE WARRANTY PERIOD

Milleteknik provides support during the life of the product, but no longer than 10 years after the date of purchase. Replacement for an equivalent product may occur if the manufacturer deems that repair is not possible. Costs for support and replacement are added after the warranty period has expired.

Country of manufacture

Country of manufacture / country of origin is Sweden. For more information, contact your seller.

Designed and produced by: Milleteknik AB

Designed and produced by Milleteknik AB