

CERTIFICATE

Issued to:
Applicant:
Lampec AG
Stauseestrasse 73
5314 Kleindöttingen, Switzerland

Licensee:
Sander Elektronik AG
Stauseestrasse 73
5314 Kleindöttingen, Switzerland

Product : Electronic emergency units for LED lighting (self-contained)
Trade name(s) : EMCU
Type(s)/model(s) : ECMU IDS ..., EMCU A ..., EMCU IS ... and EMCU I ...

The product and any acceptable variation thereof as specified in the Annex to this certificate and the documents referred to therein.

DEKRA hereby declares that the above-mentioned product has been certified based on:

- a type test according to EN 61347-1:2015, EN 61347-1:2015/A1:2021, EN 61347-2-7:2012, EN 61347-2-7:2012/A1:2019 and EN 61347-2-7:2012/A2:2022
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 2109045

DEKRA hereby grants the right to use the ENEC certification mark.

The ENEC certification mark may be applied to the product as specified in this certificate for the duration and under the conditions of the ENEC certification agreement.

This certificate is issued on 20 November 2025 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 88-167691

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



Miranda Zhou
Certification Manager

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DUTCH ACCREDITATION
COUNCIL



SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product : Electronic emergency units for LED lighting (self-contained)
Trade name(s) : EMCU
Type(s)/model(s) : ECMU IDS ..., EMCU A ..., EMCU IS ... and EMCU I ...
Ratings : Rated voltage : 220-240 V
Rated frequency : 50...60 Hz
Rated input power : max. 7 W
Max case temperature : tc = 65 °C
Ambient temperature range : ta = +5 °C...+50 °C
Rated duration for emergency operation : 1h / 3h / 8 h
Batteries : LiFePO4

Product data – type ECMU IDS ...

Type ratings : Output power (emergency operation) : min. 1 W to 3 W
Output voltage : 12 V - 55 V / 20 V – 105 V / 100 V – 220 V
Max Output voltage : 60 V (SELV)/ 120 V (SELV) / 350 V
Classification of installation : Built-in (independent with cord anchorage)
Supply connection : screwless terminal (0,2... 2,5 mm2)

Product data – type EMCU A ...

Type ratings : Output power (emergency operation) : 1 W to 7 W
Output voltage : 12 V - 55 V / 20 V – 105 V / 100 V – 220 V
Max Output voltage : 60 V / 120 V / 350 V
Classification of installation : independent with cord anchorage
Supply connection : screwless terminal (0,5... 1,5 mm2)

Product data – type EMCU I ...

Type ratings : Output power (emergency operation) : min. 1 W or 3 W
Output voltage : 12 V - 55 V / 20 V – 105 V / 100 V – 220 V
Max Output voltage : 60 V (SELV)/ 120 V (SELV) / 350 V
Classification of installation : Built-in (independent with cord anchorage)
Supply connection : screwless terminal (0,2... 2,5 mm2)

Product data – type EMCU IS ...

Type ratings : Output power (emergency operation) : min. 1W or 3 W
Output voltage : 12 V - 55 V / 20 V – 105 V / 100 V – 220 V
Max Output voltage : 60 V (SELV)/ 120 V (SELV) / 350 V
Classification of installation : Built-in (independent with cord anchorage)
Supply connection : screwless terminal (0,2... 2,5 mm2)

TESTS**Test requirements**

EN 61347-1:2015
EN 61347-1:2015/A1:2021
EN 61347-2-7:2012
EN 61347-2-7:2012/A1:2019
EN 61347-2-7:2012/A2:2022

Test result

The test results are documented in DEKRA test file 3436635.50.

Additional information

Production key:

EMCU IDS 55V/1W.480/XL2-B (example)

EMCU IS 105V/1W.480/XL2-S (example)

EMCU I 105V/3W.60/Li2-B (example)

EMCU I-aa bbV/cW.dd(d)/eee-f

- aa -AK Optional designation to identify hardware variant (eg. 55V)
- AL Optional designation to identify hardware variant (eg. 105V)
- AM Optional designation to identify hardware variant (eg. 220V)
- (empty) no identification
- bb 55 Output voltage range 12 V - 55 V
- 105 Output voltage range 40 V – 105 V
- 220 Output voltage range 100 V – 220 V

- c 1 Input power in W
- 2 Input power in W
- 3 Input power in W

- dd(d) 60 duration time of emergency lighting output in minutes
- 180 duration time of emergency lighting output in minutes
- 480 duration time of emergency lighting output in minutes

- eee XL2Battery type: LFP 2x1865 3,2 V 4,4 Ah
- Li2 Battery type: LFP 2x1865 3,2 V 3,0 Ah

- f ...-B [EL] standard emergency lighting unit
- ...-S [EL-T] emergency lighting units with automatic self-test (ATS)
- ...-DALIDALI adressable emergency lighting units compatible to DALI standard IEC 62386-101, -102, -202
- g ... O The tailing letter "O" in the type designation indicates the unit is delivered as bare PCB (housings have to be ordered separately).
- ... C The tailing letter "C" in the type designation indicates the unit is delivered with housing
- ... CL The tailing letters "CL" in the type designation indicate the unit is delivered with housing and status indicator

The list of components is laid down in test report 3436635.50.

Conclusion

The examination has confirmed that all requirements were met.

Factory location

Sander Elektronik AG

Stauseestrasse 73

5314 Kleindöttingen, Switzerland

Serie	Type	Battery	operating time	Output voltage	U-OUT
EMCU I	55V/2W/3h/2Li	elubat 275838	3	12 V - 55 V	max. 60 V
EMCU I	55V/3W/3h/2XLi	elubat 275837	3	12 V - 55 V	max. C V
EMCU I	55V/3W/1h/2Li	elubat 275838	1	12 V - 55 V	max. 60 V
EMCU I	55V/1W/8h/2XLi	elubat 275837	8	12 V - 55 V	max. 60 V
EMCU I	105V/2W/3h/2Li	elubat 275838	3	20 V – 105 V	max. 120 V
EMCU I	105V/3W/3h/2XLi	elubat 275837	1	20 V – 105 V	max. 120 V
EMCU I	105V/3W/1h/2Li	elubat 275838	3	20 V – 105 V	max. 120 V
EMCU I	105V/1W/8h/2XLi	elubat 275837	8	20 V – 105 V	max. 120 V
EMCU I	220V/2W/3h/2Li	elubat 275838	3	100 V – 220 V	max. 350 V
EMCU I	220V/3W/3h/2XLi	elubat 275837	1	100 V – 220 V	max. 350 V
EMCU I	220V/3W/1h/2Li	elubat 275838	3	100 V – 220 V	max. 350 V
EMCU I	220V/1W/8h/2XLi	elubat 275837	8	100 V – 220 V	max. 350 V
EMCU IS	55V/2W/3h/2Li	elubat 275838	3	12 V - 55 V	max. 60 V
EMCU IS	55V/3W/3h/2XLi	elubat 275837	3	12 V - 55 V	max. 60 V
EMCU IS	55V/3W/1h/2Li	elubat 275838	1	12 V - 55 V	max. 60 V
EMCU IS	55V/1W/8h/2XLi	elubat 275837	8	12 V - 55 V	max. 60 V

Serie	Type	Battery	operating time	Output voltage	U-OUT
EMCU IS	105V/2W/3h/2Li	elubat 275838	3	20 V – 105 V	max. 120 V
EMCU IS	105V/3W/3h/2XLi	elubat 275837	1	20 V – 105 V	max. 120 V
EMCU IS	105V/3W/1h/2Li	elubat 275838	3	20 V – 105 V	max. 120 V
EMCU IS	105V/1W/8h/2XLi	elubat 275837	8	20 V – 105 V	max. 120 V
EMCU IS	220V/2W/3h/2Li	elubat 275838	3	100 V – 220 V	max. 350 V
EMCU IS	220V/3W/3h/2XLi	elubat 275837	1	100 V – 220 V	max. 350 V
EMCU IS	220V/3W/1h/2Li	elubat 275838	3	100 V – 220 V	max. 350 V
EMCU IS	220V/1W/8h/2XLi	elubat 275837	8	100 V – 220 V	max. 350 V
EMCU IDS	55V/2W/3h/2Li	elubat 275838	3	12 V - 55 V	max. 60 V
EMCU IDS	55V/3W/3h/2XLi	elubat 275837	3	12 V - 55 V	max. 60 V
EMCU IDS	55V/3W/1h/2Li	elubat 275838	1	12 V - 55 V	max. 60 V
EMCU IDS	55V/1W/8h/2XLi	elubat 275837	8	12 V - 55 V	max. 60 V
EMCU IDS	105V/2W/3h/2Li	elubat 275838	3	20 V – 105 V	max. 120 V
EMCU IDS	105V/3W/3h/2XLi	elubat 275837	1	20 V – 105 V	max. 120 V
EMCU IDS	105V/3W/1h/2Li	elubat 275838	3	20 V – 105 V	max. 120 V

Serie	Type	Battery	operating time	Output voltage	U-OUT
EMCU IDS	105V/1W/8h/2XLi	elubat 275837	8	20 V – 105 V	max. 120 V
EMCU IDS	220V/2W/3h/2Li	elubat 275838	3	100 V – 220 V	max. 350 V
EMCU IDS	220V/3W/3h/2XLi	elubat 275837	1	100 V – 220 V	max. 350 V
EMCU IDS	220V/3W/1h/2Li	elubat 275838	3	100 V – 220 V	max. 350 V
EMCU IDS	220V/1W/8h/2XLi	elubat 275837	8	100 V – 220 V	max. 350 V
EMCU A	55V/1W/1h/1Li	elubat 275811	1	12 V - 55 V	max. 60 V
EMCU A	55V/3W/1h/2Li	elubat 275802; elubat 275810	1	12 V - 55 V	max. 60 V
EMCU A	55V/3W/3h/3Li	elubat 275809; elubat 275813	3	12 V - 55 V	max. 60 V
EMCU A	55V/5W/3h/6Li	elubat 275809 elubat 275813	3	12 V - 55 V	max. 60 V
EMCU A	55V/7W/3h/4HLi	elubat 275722	3	12 V - 55 V	max. 60 V
EMCU A	105V/1W/1h/1Li	elubat 275811	1	20 V – 105 V	max. 120 V
EMCU A	105V/3W/1h/2Li	elubat 275802; elubat 275810	1	20 V – 105 V	max. 120 V
EMCU A	105V/3W/3h/3Li	elubat 275809; elubat 275813	3	20 V – 105 V	max. 120 V
EMCU A	105V/5W/3h/6Li	elubat 275809 elubat 275813	3	20 V – 105 V	max. 120 V
EMCU A	105V/7W/3h/4HLi	elubat 275722	3	20 V – 105 V	max. 120 V

Serie	Type	Battery	operating time	Output voltage	U-OUT
EMCU A	220V/1W/1h/1Li	elubat 275811	1	100 V – 220 V	max. 350 V
EMCU A	220V/3W/1h/2Li	elubat 275802; elubat 275810	1	100 V – 220 V	max. 350 V
EMCU A	220V/3W/3h/3Li	elubat 275809; elubat 275813	3	100 V – 220 V	max. 350 V
EMCU A	220V/5W/3h/6Li	elubat 275809 elubat 275813	3	100 V – 220 V	max. 350 V
EMCU A	220V/7W/3h/4HLi	elubat 275722	3	100 V – 220 V	max. 350 V
EMCU A-S	55V/1W/1h/1Li	elubat 275809 elubat 275813	3	12 V - 55 V	max. 60 V
EMCU A-S	55V/3W/1h/2Li	elubat 275802; elubat 275810	1	12 V - 55 V	max. 60 V
EMCU A-S	55V/3W/3h/3Li	elubat 275809; elubat 275813	3	12 V - 55 V	max. 60 V
EMCU A-S	55V/5W/3h/6Li	elubat 275809 elubat 275813	3	12 V - 55 V	max. 60 V
EMCU A-S	55V/7W/3h/4HLi	elubat 275722	3	12 V - 55 V	max. 60 V
EMCU A-S	105V/1W/1h/1Li	elubat 275811	1	20 V – 105 V	max. 120 V
EMCU A-S	105V/3W/1h/2Li	elubat 275802; elubat 275810	1	20 V – 105 V	max. 120 V
EMCU A-S	105V/3W/3h/3Li	elubat 275809; elubat 275813	8	20 V – 105 V	max. 120 V
EMCU A-S	105V/5W/3h/6Li	elubat 275809 elubat 275813	3	20 V – 105 V	max. 120 V
EMCU A-S	105V/7W/3h/4HLi	elubat 275722	3	20 V – 105 V	max. 120 V

Serie	Type	Battery	operating time	Output voltage	U-OUT
EMCU A-S	220V/1W/1h/1Li	elubat 275811	1	100 V – 220 V	max. 350 V
EMCU A-S	220V/3W/1h/2Li	elubat 275802; elubat 275810	1	100 V – 220 V	max. 350 V
EMCU A-S	220V/3W/3h/3Li	elubat 275809; elubat 275813	3	100 V – 220 V	max. 350 V
EMCU A-S	220V/5W/3h/6Li	elubat 275809 elubat 275813	3	100 V – 220 V	max. 350 V
EMCU A-S	220V/7W/3h/4HLi	elubat 275722	3	100 V – 220 V	max. 350 V
EMCU A-MIRO4	55V/1W/1h/1Li	elubat 275811	1	12 V - 55 V	max. 60 V
EMCU A-MIRO4	55V/3W/1h/2Li	elubat 275802; elubat 275810	1	12 V - 55 V	max. 60 V
EMCU A-MIRO4	55V/3W/3h/3Li	elubat 275809; elubat 275813	3	12 V - 55 V	max. 60 V
EMCU A-MIRO4	55V/5W/3h/6Li	elubat 275809 elubat 275813	3	12 V - 55 V	max. 60 V
EMCU A-MIRO4	55V/7W/3h/4HLi	elubat 275722	3	12 V - 55 V	max. 60 V
EMCU A-MIRO4	105V/1W/1h/1Li	elubat 275811	1	20 V – 105 V	max. 120 V
EMCU A-MIRO4	105V/3W/1h/2Li	elubat 275802; elubat 275810	1	20 V – 105 V	max. 120 V
EMCU A-MIRO4	105V/3W/3h/3Li	elubat 275809; elubat 275813	8	20 V – 105 V	max. 120 V
EMCU A-MIRO4	105V/5W/3h/6Li	elubat 275809 elubat 275813	3	20 V – 105 V	max. 120 V
EMCU A-MIRO4	105V/7W/3h/4HLi	elubat 275722	3	20 V – 105 V	max. 120 V

Serie	Type	Battery	operating time	Output voltage	U-OUT
EMCU A-MIRO4	220V/1W/1h/1Li	elubat 275811	1	100 V – 220 V	max. 350 V
EMCU A-MIRO4	220V/3W/1h/2Li	elubat 275802; elubat 275810	1	100 V – 220 V	max. 350 V
EMCU A-MIRO4	220V/3W/3h/3Li	elubat 275809; elubat 275813	3	100 V – 220 V	max. 350 V
EMCU A-MIRO4	220V/5W/3h/6Li	elubat 275809 elubat 275813	3	100 V – 220 V	max. 350 V
EMCU A-MIRO4	220V/7W/3h/4HLi	elubat 275722	3	100 V – 220 V	max. 350 V
EMCU A-OPG	-OPG 55V/1W/1h/1Li	elubat 275811	1	12 V - 55 V	max. 60 V
EMCU A-OPG	-OPG 55V/3W/1h/2Li	elubat 275802; elubat 275810	1	12 V - 55 V	max. 60 V
EMCU A-OPG	-OPG 55V/3W/3h/3Li	elubat 275809; elubat 275813	3	12 V - 55 V	max. 60 V
EMCU A-OPG	-OPG 55V/5W/3h/6Li	elubat 275809 elubat 275813	3	12 V - 55 V	max. 60 V
EMCU A-OPG	-OPG 55V/7W/3h/4HLi	elubat 275722	3	12 V - 55 V	max. 60 V
EMCU A-OPG	-OPG 105V/1W/1h/1Li	elubat 275811	1	20 V – 105 V	max. 120 V
EMCU A-OPG	-OPG 105V/3W/1h/2Li	elubat 275802; elubat 275810	1	20 V – 105 V	max. 120 V
EMCU A-OPG	-OPG 105V/3W/3h/3Li	elubat 275809; elubat 275813	8	20 V – 105 V	max. 120 V
EMCU A-OPG	-OPG 105V/5W/3h/6Li	elubat 275809 elubat 275813	3	20 V – 105 V	max. 120 V
EMCU A-OPG	-OPG 105V/7W/3h/4HLi	elubat 275722	3	20 V – 105 V	max. 120 V

Serie	Type	Battery	operating time	Output voltage	U-OUT
EMCU A-OPG	-OPG 220V/1W/1h/1Li	elubat 275811	1	100 V – 220 V	max. 350 V
EMCU A-OPG	-OPG 220V/3W/1h/2Li	elubat 275802; elubat 275810	1	100 V – 220 V	max. 350 V
EMCU A-OPG	-OPG 220V/3W/3h/3Li	elubat 275802; elubat 275810	3	100 V – 220 V	max. 350 V
EMCU A-OPG	-OPG 220V/5W/3h/6Li	elubat 275811	1	100 V – 220 V	max. 350 V
EMCU A-OPG	-OPG 220V/7W/3h/4HLi	elubat 275722	3	100 V – 220 V	max. 350 V