

FlexLED – Emergency battery pack

Manual



VERSION	MODIFICATIONS
1.0	First edition

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1 General information

1.1 Marking concept for hazards and hints

 **Hazard**

Hazardous situation which will cause serious injury or even death if it is not prevented.

 **Caution**

Hazardous situation which could cause slight to moderate injury if it is not prevented.

 **Hint**

Indicates information which does not concern personal injury, e.g. hints in respect of material damage.

 **Protective measures**

Increase safety by applying a protective measure.

1.1.1 Designation on your product



The CE mark of conformity verifies that your device meets the safety requirements of EU Low Voltage Directive 2006/95/EC and EMC Directive 2004/108/EC.

1.2 Responsibilities of the operator

- Make sure that this document is always kept in a safe place in a legible form together with the product.
- Read these instructions carefully before first start-up of the product.
- This product has been developed and produced exclusively for the use indicated in these documents. Every other use, which is not mentioned explicitly, could affect the intactness of the product and/or could constitute a source of danger.
- The manufacturer rejects any liability for damage which has been caused by incorrect or non-intended use of the product.
- In countries, which do not belong to the European Community, the national legal reference regulations as well as the standards and regulations applicable in these countries have to be observed for warranty of a corresponding safety level.
- The installation has to be carried out according to the applicable regulations.
- The manufacturer assumes no liability for inexperienced execution of installation as well as deformations which may occur during operation.
- The electric power supply has to be switched off before executing any action on the installation.
- Exclusively original parts of the manufacturer shall be used for maintenance. Maintenance work may be carried out by qualified staff only.
- All procedures which are not explicitly mentioned by the manufacturer in the instructions are not permitted.
- The packing material must not be stored within the reach of children as it could be a potential source of danger.

2 Important basic information

2.1 Scope of delivery



3 Safety

3.1.1 Intended use

3.1.2 Area of application

The FlexLED can continue to be operated with reduced brightness for up to a maximum of 2 hours with the emergency battery pack in the event of a power failure.

The high-performance and efficient temporary lighting installation offers extensive options for exterior and interior lighting e.g for industrial facilities, billboards, footpaths, façades, tunnels, etc.

Suitable for all areas which require lighting (except for hazardous areas).

3.1.3 Requirements for personnel

- Maintenance, repair and inspection work must be carried out by qualified personnel (in accordance with the national regulations) with original parts, in order to ensure the safety of users and functional reliability.
- Safety-relevant environmental conditions

3.1.4 Safety-relevant environmental conditions

Hazard

- The FlexLED emergency battery pack and the FlexLED may not be installed in potentially explosive environments. Flammable gases or vapours are a serious safety hazard.
- The FlexLED emergency battery pack is suitable for assembly with normally flammable materials.
- The operating temperature of the FlexLED emergency battery pack is from -10°C to +45°C.
- The FlexLED emergency battery pack does not have an official emergency lighting approval.
- The voltage range at the output is 175VDC.

Caution

- We therefore recommend that the FlexLED emergency battery pack is always handled with the appropriate precautions.

Hint

- The use of a high-pressure cleaning device for the FlexLED emergency battery pack is prohibited.

4 Storage conditions and disposal

4.1 Storage

- Storage temperature at -10°C to $+45^{\circ}\text{C}$
- No additional measures are required for storage.
- Protect against damage when packing.

4.2 Cleaning

- If the FlexLED emergency battery pack is dirty, clean it with a damp cloth
- Do not use any scouring agents or solvents!

4.3 Disposal of the device



This product must not be thrown in the garbage.

In accordance with official local and national regulations, this product is to be recycled appropriately.

European directive 2012/19/EU; waste electrical and electronic equipment (WEEE).

5 Technical Data

FlexLED Emergency battery packI

Output:	50 W
Emergency operation rechargeable battery:	120 min
Battery level:	Display via indicator light
Connected power:	max. 1'500 W
Input voltage:	100-277 VAC≤7A 50/60Hz
Output voltage:	175 VDC
Battery:	22.2 V 6'000 mAh Li-ion battery
Charging time:	> 8 h (80 %)
Emergency trigger time:	<1 s
Protection category:	IP65
Impact resistance:	IK08
Temperature range:	–10°C to +45°C
Connection cable:	1.5 m (3×1.5 mm ² rubber cable with plug and connector IP55 type 13)
Material casing:	anodised aluminum
Casing colour:	grey
Operating life:	>30.000h or 500 charging cycles
Dimension casing (L x W x H):	310x88x45mm without connection cable
Weight:	2.1 kg

6 Set up and functions

6.1 Set up



1. Casing
2. Power plug T13
3. FlexLED connection socket on current collector
4. AC/DC converter with integrated microfuses
5. Illuminated push-button

Internal battery charge protection with overcharge and overdischarge protection is included.

6.2 Functions

6.2.1 Mains/charging operation

The illuminated pushbutton shows red when the charge status is less than 90 %.
The illuminated pushbutton shows green when the charge status is more than 90 %.
The FlexLED emergency battery pack is charged during mains operation.

6.2.2 Emergency operation

In case the FlexLED emergency battery pack is disconnected from the mains or the power supply fails, emergency operation starts automatically with reduced brightness.
If the emergency function has been activated, the illuminated pushbutton will slowly flash red and green for 5 seconds each.

10 m: 30 %
25 m: 20 %
50 m: 10 %

6.2.3 Discharge operation

The illuminated pushbutton flashes green all the time until the battery power has been exhausted. After that, the indicator of the illuminated pushbutton goes off.

6.2.4 Battery status query

With the emergency function switched on, briefly press the illuminated pushbutton to indicate the power supply.

Number of red light flashes (flashing):

- 1x = 0 % – 20 % remaining power
- 2x = 20 % – 40 % remaining power
- 3x = 40 % – 60 % remaining power
- 4x = 60 % – 80 % remaining power
- 5x = 80 % – 100 % remaining power

6.2.5 Emergency operation OFF

Press the illuminated pushbutton for more than 3 seconds to switch off the emergency function.

7 Service

7.1 Service addresses

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7.2 Imprint

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