



# TROTEC PWLS 05-10 / PWLS 06-10 LED Work Lamp User Manual

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OPERATING MANUAL  
LED WORK LAMP



PWLS 05-10 / PWLS 06-10

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## Notes regarding the instructions

### Symbols



#### **Warning of electrical voltage**

This symbol indicates dangers to the life and health of persons due to electrical voltage.



#### **Warning of hot surface**

This symbol indicates dangers to the life and health of persons due to a hot surface.



#### **Warning**

This signal word indicates a hazard with an average risk level which, if not avoided, can result in serious injury or death.



#### **Caution**

This signal word indicates a hazard with a low-risk level which, if not avoided, can result in minor or moderate injury.

#### **Note**

This signal word indicates important information (e.g. material damage), but does not indicate hazards.



#### **Info**

Information marked with this symbol helps you to carry out your tasks quickly and safely.



#### **Follow the manual**

Information marked with this symbol indicates that the instructions must be observed.

You can download the current version of the instructions and the EU declaration of conformity via the following link:



PWLS 05-10



<https://hub.trotec.com/?id=44106>

PWLS 06-10



<https://hub.trotec.com/?id=44107>

## Safety

### General Power Tool Safety Warnings



#### Warning

**Read all safety warnings, instructions, illustrations, and specifications provided with this power tool.**

Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

**Save all warnings and instructions for future reference.**

The term power tool in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.



#### General Power Tool Safety Warnings – Work area safety

- **Keep the work area clean and well-lit.** Clutter or dark areas invite accidents.
- **Do not operate power tools in an explosive atmosphere, such as in the presence of flammable liquids, gases, or dust.** Power tools create sparks that may ignite dust or fumes.
- **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.



#### General Power Tool Safety Warnings – Electrical safety

- **Power tool plugs must match the outlet. Never modify the plug in any way.** Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce the risk of electric shock.
- **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges, and refrigerators.**

There is an increased risk of electric shock if your body is earthed or grounded.

- **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of

electric shock.

- **Do not abuse the cord. Never use the cord for carrying, pulling, or unplugging the power tool.** Keep the cord away from heat, oil, sharp edges, or moving parts. Damaged or entangled cords increase the risk of electric shock.
- **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** The use of a cord suitable for outdoor use reduces the risk of electric shock.
- **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** The use of an RCD reduces the risk of electric shock.



#### **General Power Tool Safety Warnings – Power tool use and care**

- **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
- **Do not use the power tool if the switch does not turn on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- **Store idle power tools out of the reach of children and Do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the power tool's operation.** If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- **Use the power tool, accessories and tool bits, etc. In accordance with these instructions, Take into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.
- **Keep handles and grasping surfaces dry, clean, and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.



#### **General Power Tool Safety Warnings – Battery tool use and care**

- **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when operated with another battery pack.
- **Keep the USB inputs closed with the rubber side cover to prevent them from contamination.** If you do not follow this advice and the USB inputs become contaminated, it might not be possible to plug in the USB charging cable.
- **Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.** Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.
- **Keep charger and USB charging cable clean.** Contamination entails a risk of electric shock.
- **Do not operate the charger on the highly combustible ground (e.g. paper, textiles, etc.) or in an inflammable environment.** The heat generated by the charger during charging entails a risk of fire.
- **Only use the supplied USB charging cable by Trotec for the device was 06-10.** Do not use any other USB cables.
- **Do not charge the battery of the device PWLS 06-10 if you have switched on the LEDs or the light at the same time.** The device may be damaged. Always switch off the LEDs or the light before charging the battery.



## **General Power Tool Safety Warnings – Service**

- **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

### **Intended use**

Use the devices PWLS 05-10 and PWLS 06-10 according to the technical data and only for a temporary illumination of indoor and outdoor areas, e.g. for construction sites.

### **Foreseeable misuse**

Any other use than the one described in the chapter “Intended use” is regarded as reasonably foreseeable misuse.

### **Personnel qualifications**

People who use this device must:

- have read and understood the instructions, especially the Safety chapter.

### **Residual risks**

#### **Warning of electrical voltage**



Electric shock from insufficient insulation.

Check the device for damages and proper functioning before each use.

If you notice damages, no longer use the device.

Do not use the device when the device or your hands are damp or wet!



#### **Warning of electrical voltage**

Work on the electrical components must only be carried out by an authorized specialist company!



#### **Warning of electrical voltage**

There is a risk of a short circuit due to liquids penetrating the housing!

Do not immerse the device and the accessories in water. Make sure that no water or other liquids can enter the housing.



#### **Warning of explosive substances**

Do not expose the battery to temperatures above 75 °C! Do not let the battery come into contact with water or fire!

Avoid direct sunlight and moisture.

There is a risk of explosion!



#### **Warning of hot surface**

Some parts of this product can become very hot and cause burns. Particular attention has to be given where children and vulnerable people are present!



#### **Warning**

Dangers can occur to the device when it is used by untrained people in an unprofessional or improper way!

Observe the personnel qualifications!



#### **Warning**

The device is not a toy and does not belong in the hands of children.



#### **Warning**

Risk of suffocation!

Do not leave the packaging lying around. Children may use it as a dangerous toy.



#### **Caution**

Keep a sufficient distance from heat sources.

### **Note**

If you store or transport the device improperly, the device may be damaged.

Note the information regarding transport and storage of the device.

## **Information about the device**

### Device description

The devices PWLS 05-10 and PWLS 06-10 are equipped with light-intense surface LEDs.

You can select between a high or low brightness level for both devices. Moreover, you can select the strobe mode. In the strobe mode, a flash effect can be created which can serve as a warning, marking, or defense function. Both devices are equipped with a transport handle and a wrist strap attachment. A magnetic holder is positioned on the wrist strap attachment.

The device PWLS 05-10 is operated with batteries. The batteries are not included in the scope of delivery.

The device PWLS 06-10 is operated with an integrated battery.

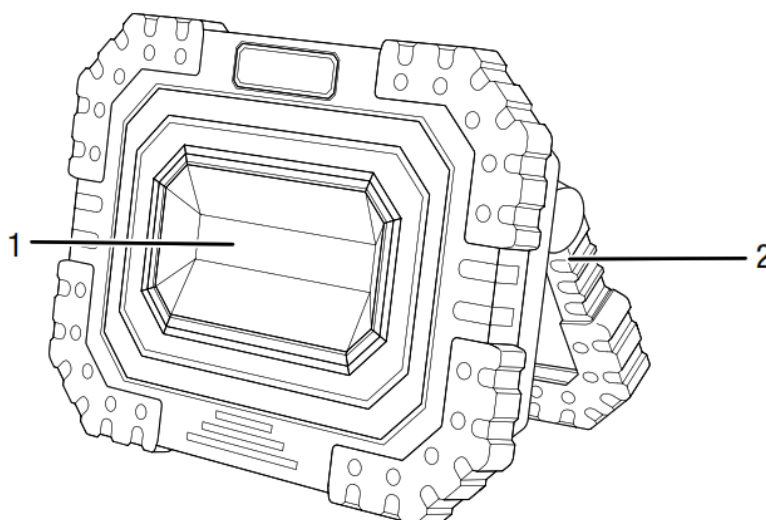
The battery is built-in and can be charged via a USB charging cable and a standard charger. The standard charger is not included in the scope of delivery.

The battery status can be read on the battery indication (4 blue LEDs).

The device PWLS 06-10 is equipped with a power bank function.

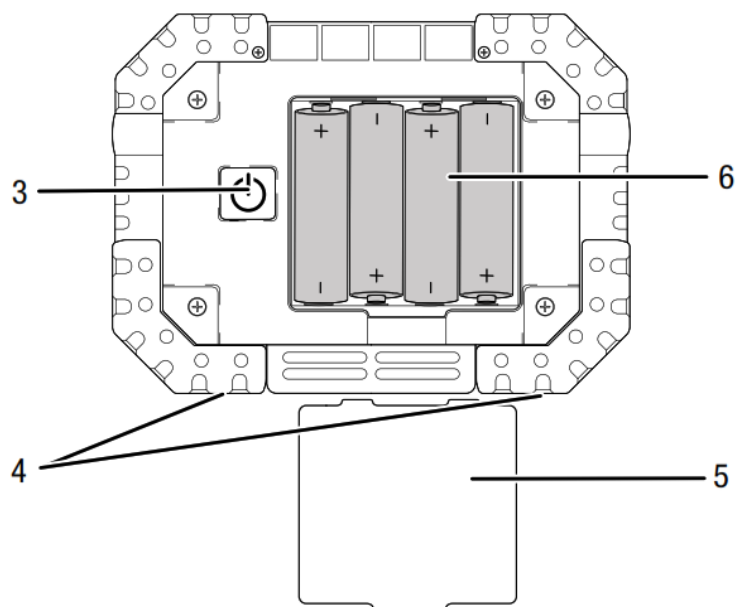
### Device depiction

#### Rearview and USB charging cable PWLS 06-10



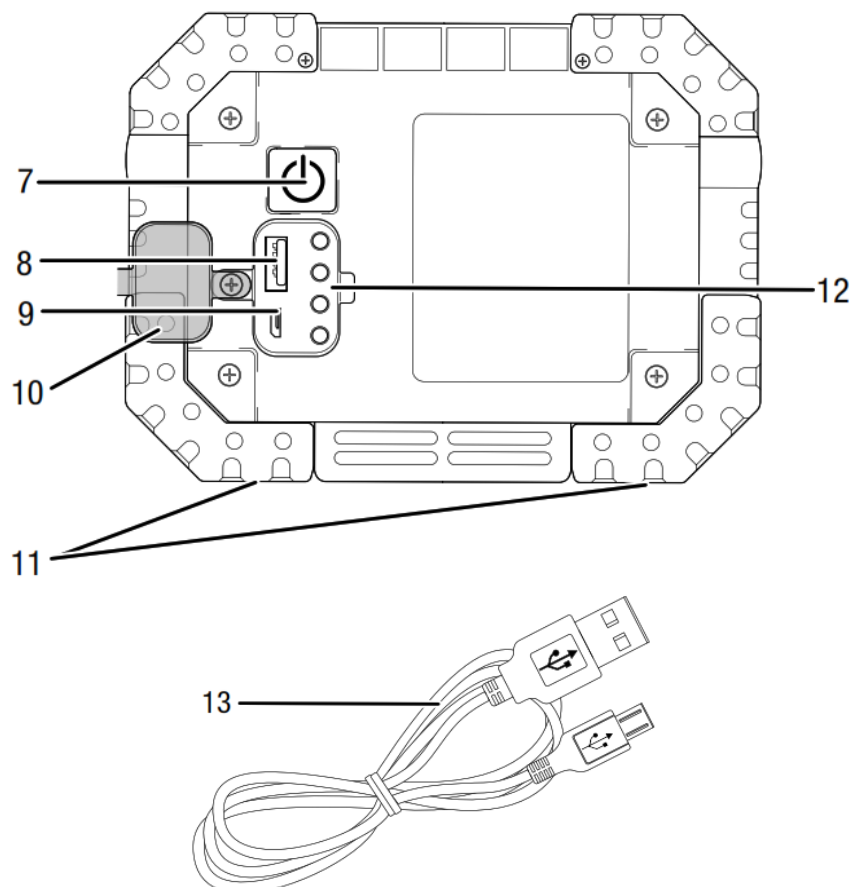
No.	Designation
1	Surface LED
2	Transport handle with wrist strap attachment

#### Rearview PWLS 05-10



No.	Designation
3	On/off switch
4	Magnetic holder
5	Battery compartment cover
6	Battery compartment

#### Front view PWLS 05-10 and PWLS 06-10



No.	Designation
7	On/off switch
8	USB connection/output
9	USB connection/input
10	Cover for USB connections
11	Magnetic holder
12	Battery indication (4 blue LEDs)
13	USB charging cable

#### **Scope of delivery**

##### **PWLS 05-10**

- 1 x LED work light
- 1 x Manual
- 4 x AA 1.5 V batteries

##### **PWLS 06-10**

- 1 x LED work light with integrated battery
- 1 x Manual
- 1 x USB charging cable

#### **Technical data**

##### **PWLS 05-10**



Parameter		Value
Nominal voltage		6 V
Surface LED	Power input	10 W
	Luminous flux	650 lm
	Burn time	high light-intensity = 3-4 h Low brightness level = 9-10 h
	Color temperature	6000 K
Dimensions (length x width x height)		40 x 160 x 125 mm
Weight (packaging excluded)		370 g
Batteries		4 AA 1.5 V
Runtime of batteries		≥3 hours
Permitted ambient temperature (when stored)		-30 °C – +75 °C
Operating temperature		-20 °C – +55 °C
Type of protection		IP 44
Protection class		III

Parameter		Value
Surface LED	Power input	10 W
	Luminous flux	800 lm
	Burn time	high light-intensity = 4-5 h Low brightness level = 8-9 h
	Color temperature	6000 K
Dimensions (length x width x height)		40 x 160 x 125 mm
Weight (packaging excluded)		434 g
Length USB cable		0.8 m
Nominal voltage USB connection (output)		5 V
Nominal current consumption USB connection (output)		1 A
Battery type		Li-ion
Battery voltage		3.7 V
Battery capacity		4400 mAh
Charging time		6-7 h

Permitted ambient temperature (when stored)	-30 °C – +75 °C
Operating temperature	-20 °C – +55 °C
Type of protection	IP 44
Protection class	III

## Transport and storage

### Note

If you store or transport the device improperly, the device may be damaged.  
Note the information regarding transport and storage of the device.

### Transport

To make the device easier to transport, it is fitted with a transport handle.

**Before** transporting the device, observe the following:

- Hold onto the mains plug while pulling the power cable of the charger out of the mains socket.
- Switch the device off.
- Allow the device to cool down.
- Remove the batteries from the device PWLS 05-10.
- Disconnect the USB charging cable from the device PWLS 06-10.

The supplied batteries are subject to the requirements of dangerous goods legislation.

Observe the following when transporting or shipping batteries:

- The user may transport the batteries by road without any additional requirements.
- If transport is carried out by third parties (e.g. air transport or forwarding company), special requirements as to packaging and labeling must be observed. This includes consulting a dangerous goods specialist when preparing the package.
  - Only ship batteries if their housing is undamaged.
  - Mask open terminals with tape and pack the battery in a way that it cannot move inside the packaging.
  - Please also observe any other national regulations.

### Storage

**Before** storing the device, observe the following:

- Switch the device off.

- Pull the USB charging cable (13) out of the device PWLS 06-10.
- Allow the device to cool down.
- Remove the batteries from the device PWLS 05-10.
- Clean the device as described in the Maintenance chapter.
- Do not store Li-ion batteries that are completely discharged. Storing discharged batteries can lead to a deep discharge and thus damage the battery.

When the device is not being used, observe the following storage conditions:

- dry and protected from frost and heat
- Ambient temperature below 75 °C
- protected from dust and direct sunlight

## Start-up

### Unpacking the device

- Take the device and the accessories out of the packaging.

#### Warning of electrical voltage



Electric shock from insufficient insulation.

Check the device for damages and proper functioning before each use.

If you notice damages, no longer use the device.

Do not use the device when the device or your hands are damp or wet!

- Check the contents for completeness and look for damages.

### Warning

Risk of suffocation!

Do not leave the packaging lying around. Children may use it as a dangerous toy.

- Dispose of the packaging material according to national regulations.

#### Inserting batteries for PWLS 05-10

You need 4 AA 1.5 V batteries for the device PWLS 05-10.

Insert the batteries into the device prior to use. Please proceed as follows:

1. Open the battery compartment (6) by removing the battery compartment cover (5).
2. Insert the batteries with correct polarity into the battery compartment (6) (+/-).
3. Close the battery compartment (6) by closing it with the battery compartment cover (5).

➡ The device PWLS 05-10 is now ready to use.

### Charging batteries for PWLS 06-10

#### Note

The battery can be damaged in case of improper charging.

Pull out the USB charging cable (13) from the external charger each time before switching the device on.

Never charge the battery at ambient temperatures below -20 °C or above 55 °C.

Charge the battery of PWLS 06-10 completely before using the device. Use the USB charging cable (13) and a standard charger.

**Proceed as follows to charge the battery:**

1. Open the cover (10) of the USB connections at the back of the cordless work light.
2. If applicable, plug the charger into the main socket.
3. Put the USB charging cable (13) into the USB connection/ input (9) of the device PWLS 06-10 and into a charger.
  - ⇒ When the battery status is very low, the charging time is 6-7 hours.
  - ⇒ When the battery is charged to 25%, the first LED of the battery indication (12) is illuminated in blue. When the battery is charged to 50 %, the second LED of the battery indication (12) is illuminated in blue. When the battery is charged 75 %, the third LED of the battery indication (12) is illuminated in blue.
  - ⇒ When the battery is charged 100 %, the fourth LED of the battery indication (12) is illuminated in blue.
4. When all LEDs of the battery indication (12) are illuminated and the battery is completely charged, you can remove the USB charging cable (13) from the charger and from the device PWLS 06-10.
5. Pull the charger out of the main socket.
  - ⇒ The LED work light and the charger may have become warm during charging. Let the LED work light and the charger cool down to room temperature.
  - ⇒ The device PWLS 06-10 is now ready to use.

#### **Note**

Note that the battery status of the device PWLS 06-10 cannot be read while in operation. You can only read the battery status while charging.

## **Operation**

### **Tips and notes on handling the LED work light**

General information:

- Avoid looking directly into the light source.
- Use the devices only for temporary illumination of indoor and outdoor areas, e.g. for construction sites.
- The devices PWLS 05-10 and PWLS 06-10 can be used as strobes.
- The LED work lights are particularly suited for illuminating larger areas.



#### **Info**

You can turn the handles of the LED work lights by 180° and set 6 positions.

### **Switching the device on and off**

Switching the devices PWLS 05-10 and PWLS 06-10 on and off works identically.

1. Press the on/off switch (3/7) 1 x to switch the device on or off.
  - ⇒ Once the device is switched on, the surface LED (1) is illuminated.
  - ⇒ Once the device is switched off, the surface LED (1) is not illuminated.

### **Setting brightness level and strobe mode**

Setting brightness level and strobe mode works identically for both devices PWLS 05-10 and PWLS 06-10

✓ Check whether the batteries (standard or integrated) are completely charged. If necessary, replace the batteries or charge the integrated battery.

1. Set the lowest light intensity by pressing the on/off switch (3/7) 1 x.
2. Set the high brightness level by pressing the on/off switch (3/7) 3 x.
3. Set the strobe mode by pressing the on/off switch (3/7) 5 x.

Always proceed in the same order to set the desired light intensity or the strobe mode.

#### **Note**

By quickly pressing the on/off switch (3/7), you can switch between the brightness levels and the strobe mode.

### **Using the power bank**

#### **Note**

Do not charge the battery of the device PWLS 06-10 if you have switched on the LEDs or the light at the same time. The device may be damaged. Always switch off the LEDs or the light before charging the battery.

If you like to use the device PWLS 06-10 as a power bank, proceed as follows:

1. Put the USB charging cable (13) into the USB connection/output (8) of the device PWLS 06-10.
2. Then plug the USB charging cable into the USB input of the device that you would like to charge.
3. Charge your device until it has reached the desired charging status.
4. Disconnect the USB charging cable (13) from the device that has been charged, and from the device PWLS 06-10.

#### **Note**

The battery indication (4 blue LEDs) does not need to be observed when charging an external device.

While charging, the battery indication (4 blue LEDs) only displays the battery status of the device PWLS 06-10.

#### **Note**

Note that the device PWLS 06-10 discharges when it is used as a power bank.

### **Shutdown (PWLS 05–10)**



#### **Warning of electrical voltage**

Never touch the batteries in the battery compartment (6) with wet or damp hands.

- Switch the device off.
- Remove the batteries from the battery compartment (6).
- If required, allow the device to cool down.
- Clean the device according to the Maintenance chapter.
- Store the device according to the Storage chapter.

### **Shutdown (PWLS 06–10)**

#### **Note**

Never touch the USB connections of the device PWLS 06-10 with wet or damp hands.

1. Switch the device off.
2. Disconnect the USB charging cable (13).
3. If required, allow the device to cool down.
4. Clean the device according to the Maintenance chapter.
5. Store the device according to the Storage chapter.

### **Errors and faults**

#### **Note**

The device has been checked for proper functioning several times during production. If malfunctions occur nonetheless, check the device according to the following list.

Troubleshooting tasks that require the housing to be opened must only be carried out by an authorized specialist electrical company or by Trotec.

#### **The battery does not charge:**

- Check if the USB charging cable is plugged in properly into both the charger and the device.

Check if the USB charging cable is properly connected to both the contacts of the charger and the device.

- Check USB charging cable, charger, and device for damages. Do not use the damaged device anymore if you detect any damage. Contact Trotec customer service.
- Check the fuse (home).

**Note**

The integrated battery might possibly be defective.

Contact Trotec customer service.

**The battery does not charge:**

- Check if the USB charging cable is plugged in properly into both the charger and the device.  
Check if the USB charging cable is properly connected to both the contacts of the charger and the device PWLS 06-10.
- Check USB charging cable, charger, and device PWLS 06-10 for damages. Do not use the damaged device anymore if you detect any damage. Contact Trotec customer service.
- Check the fuse (home).

**Note**

The integrated battery might possibly be defective.

Contact Trotec customer service.

The device is not lit:

- The batteries might possibly be empty. Replace them with new batteries.
- The battery power might be too low. Charge the battery via the USB charging cable and a charger.
- On the battery indication (4 blue LEDs), you can check whether the battery has been completely charged.
- Check the USB charging cable for damages. If the USB charging cable is damaged, stop using it. Contact Trotec customer service.

**Note**

The LEDs are possibly damaged. Contact Trotec customer service.

**Note**

Wait for at least 3 minutes after maintenance and repair work. Only then switch the device back on.

**The device still does not operate correctly after these checks:**

Please contact customer service. If necessary, bring the device to an authorized specialist electrical company or to Trotec for repair.

**Maintenance**

Activities required before starting maintenance



**Warning of electrical voltage**

Do not touch the mains plug of the charger with wet or damp hands.

- Switch the device off.
- Hold onto the mains plug while pulling the power cable of the charger out of the mains socket.
- Disconnect the USB charging cable.

- Allow the device to cool down completely.



### **Warning of electrical voltage**

**Maintenance tasks that require the housing to be opened must only be carried out by authorized specialist companies or by Trotec.**

### **Notes on maintenance**

The device does not require maintenance.

### **Cleaning**

The device should be cleaned before and after each use.



### **Warning of electrical voltage**

There is a risk of a short circuit due to liquids penetrating the housing!

Do not immerse the device and the accessories in water. Make sure that no water or other liquids can enter the housing.

- Clean the device with a soft, damp, and lint-free cloth.

Make sure that no moisture enters the housing. Protect electrical components from moisture. Do not use any aggressive cleaning agents such as cleaning sprays, solvents, alcohol-based or abrasive cleaners to dampen the cloth.

- Dry the device with a soft, lint-free cloth.
- Keep the connecting terminals on the device and charger clean.
- When you are currently not charging the battery, leave the cover (10) on the USB connections. This way, no dirt can enter.

## **Disposal**



■ The icon with the crossed-out waste bin on waste electrical or electronic equipment stipulates that this equipment must not be disposed of with the household waste at the end of its life. You will find collection points for free return of waste electrical and electronic equipment in your vicinity. The addresses can be obtained from your municipality or local administration. You can also find out about other return options that apply to many EU countries on the website <https://hub.trotec.com/?id=45090>. Otherwise, please contact an official recycling center for electronic and electrical equipment authorized for your country.

The separate collection of waste electrical and electronic equipment aims to enable the re-use, recycling, and other forms of recovery of waste equipment as well as to prevent negative effects on the environment and human health caused by the disposal of hazardous substances potentially contained in the equipment.



In the European Union, batteries and accumulators must not be treated as domestic waste but must be disposed of professionally in accordance with Directive 2006/66/EC of the European Parliament and of the Council of 6 September 2006 on batteries and accumulators. Please dispose of batteries and accumulators according to the relevant legal requirements.






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## Documents / Resources

	<p><a href="#">TROTEC PWLS 05-10 / PWLS 06-10 LED Work Lamp</a> [pdf] User Manual PWLS 05-10, PWLS 06-10, LED Work Lamp, Work Lamp, LED Lamp, Lamp</p>
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Manuals+.