



Protector 11

Operating Manual



EN

This appliance is not meant to be used, cleaned or maintained by children or other persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning safe use of the appliance and understand the hazards involved. Children shall not play with the appliance.



Thank you for choosing the Olli energiser. Please read these instructions carefully before using the device. We advise using an Olli Tester to help diagnose any problems you may have with your fence.

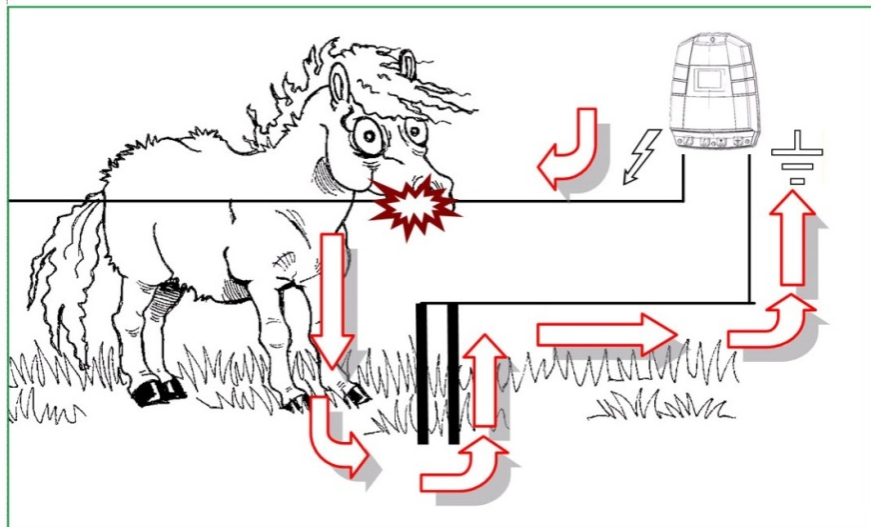


Safety

All Olli energisers fulfill the safety regulations that are defined for fence energisers. Please read this manual before installing or using the energiser

- ✓ ***Do not touch the fence wires or the terminals on the energiser when it is switched on!***
- ✓ ***The shock can be dangerous to children or people with heart conditions if they get stuck in the fence!***
- ✓ ***Make sure there is a designated crossing point or gate in the fence!***
- ✓ ***Make sure there are warning signs on the fence at regular intervals!***
- ✓ ***This energiser can only be serviced or maintained by an Olli service agent!***
- ✓ ***If the power lead is damaged do not use the energiser get it replaced!***
- ✓ ***Do not use an extension lead outside!***
- ✓ ***Never connect wires to the energiser when the mains lead is plugged in!***
- ✓ ***Never install the energiser upside down!***

How an Electric Fence works



The animal makes the connection between the power and the earth and gets the shock! The animals have to be taught to respect the fence. Electric fences depend on the ability of the animal to remember. The animal remembers the shock and learns to respect the fence. It's important that the earth is good to make the energiser work efficiently.

See later section on earthing.

Quick instructions

Install the energiser with the screws provided on a vertical surface so that the wire connectors are at the lower end of the device. Install the device close to a mains connection e.g. on the wall of a building. Place the device inaccessible to the animals. There is a drilling template for the mounting holes on the back of the packaging. You can use it to position the mounting holes easily. Connect the fence connector wire to the red connector marked with lightning symbol and connect the earthing wire to the black connector marked with. Push the coloured connector button firmly down and insert the stripped wire from below into the connector jaw. Turn the device on by connecting the mains power.



Connecting the energiser to the fence

Connect the energiser to the fence wire with the fence connector wire that is included in the delivery. Connect the connector wire to the fence wire and tighten the screws properly to ensure a good electrical connection. Connect the other end of the fence connector wire to the red connector marked with a lightning symbol.

RED LEAD = POWER/FENCE

BLACK LEAD = EARTH

The low power output is internally connected to the high power terminal through a limiter device. Therefore a fault in the low power fence does not affect operation of the high power fence, but a fault in the high power fence also affects the low power fence.

Olli Protector 11 features

Olli Protector 11 is a time delayed intelligent energiser as specified by European standard EN 60335-2-76/A12:2010. It has a delay time of 60 seconds. Olli Protector 11 continuously monitors fence health, increasing and decreasing output power as required by fence length, grass, weather etc. If fence health suddenly gets worse, power is not increased until 60 seconds delay time has passed. This delay decreases the likelihood of entanglement.

If an animal or person does get stuck in the fence for more than a few seconds or if they are in danger of receiving pulse energy in excess of 5 J, Olli Protector 11 enters alarm mode.

In alarm mode, Olli Protector 11 will;

- ✓ sound an alarm
- ✓ blink the alarm indicator light
- ✓ slow down the pulse rate
- ✓ limit the fence output energy to 5 Joule or less.

Alarm mode lasts;

- ✓ until the fault is removed
- ✓ 10 minutes has passed
- ✓ the alarm is disabled using the alarm mute button.

When alarm sounds;

- ✓ immediately stop the energiser
- ✓ inspect the fence to verify the cause - a person or an animal may be stuck in the fence and need help.

Boost mode is when the energiser is operating over 5 joules

Olli Protector 11 LED lamp display:



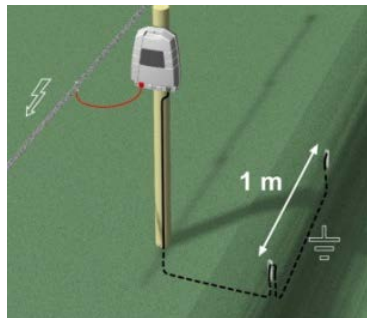
- ✓ To disable the alarm and boost mode press "alarm mute"
- ✓ When disabled the alarm/boost mute light is on.
- ✓ Olli Protector 11 remembers this setting even when power is off.

Earthing

Poor earthing is the most likely cause of poor performance of the energiser; please follow these simple rules;

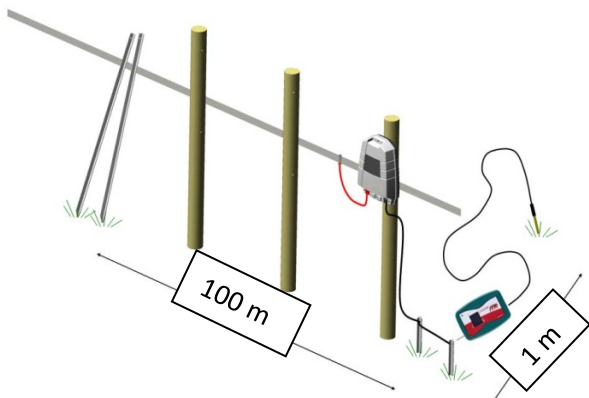
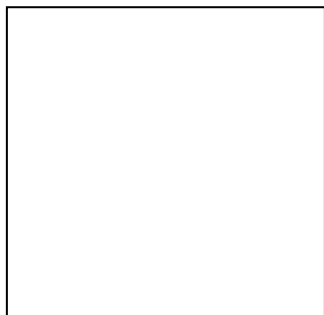
1. Wet/Clay ground makes good earthing – Dry/sandy soil is a poor earth
2. Use good quality earth stakes that are galvanized – A piece of iron will not work for very long. DO NOT connect the earth to a building/water pipes etc.

To get good earthing it may be necessary to have more than 1 earth stake. Extra earth stakes should be 1m from each other and connected together with high quality high voltage cable.



We recommend using the Olli earth Stake which is specially galvanized for long life, the connection cable to the energiser comes already attached to the earth stake and attaches to the Earth Connector. Part Number 3810944

How to Test the Earthing



Maintenance

Test the fence

- Put the testers earth in the ground
- Touch the fence with the testers pin



- Check connections
- Minimum Voltage should be 4,000 volts

The Power in the electric fence is dependent on the connections making good contact. Also any vegetation touching the fence will take away the power. Check your fence regularly!

Lightning protection

All Olli energisers are protected against over voltage and the warranty covers also lightning damage. However, it is not possible to build the fence energiser to withstand all possible situations. Therefore it is wise to use an Olli lightning diverter whenever the fence is situated in very open ground or if lightning occurs frequently in the region. It is also advisable to disconnect both the fence and mains power from the energiser if you leave your electric fence unused for a long period of time.



Warranty

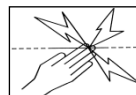
This product carries a three (3) year manufacturer's warranty for materials and workmanship from the date it was retailed, the warranty includes overloads caused by lightning. To claim the warranty, the customer should return the defect product to the Manufacturer, reseller or the nearest Olli Service Partner at customer's own expense. The warranty claim must be accompanied by the description of the fault, copy of the sales receipt and customer's contact information. The Manufacturer / Olli Service Partner will repair or replace the defect product and return it as soon as possible.

The warranty does not cover any damages that are caused by incorrect or careless use of the product, installation that does not correspond to the provided instructions and other damages which may arise due to causes beyond the control of the Manufacturer. Olli does not accept any responsibility for any direct, indirect or consequential damages that are caused by the use of the product or the fact that the product could not be used. The liability of Olli is limited to the price of the product in maximum.

Instructions for installation and connection of electric fences

Electric fences shall be installed, operated and maintained in a manner that minimizes danger to persons, animals or their surroundings and as far as is reasonably possible out of the reach of children and not subject to mechanical damage. Any electric fence installed along a public road or pathway must be identified with warning signs at regular intervals. The warning sign should have a yellow background and be at least 100mm x 200mm and have the words "Caution Electric fence" or have a symbol to represent a hand and shock in Black at least 25 mm high. The inscription shall be indelible, inscribed on both sides of the warning sign.

A picture of a warning sign



- Electric fences must not be supplied from two separate energisers.
- Avoid contacting electric fence wires especially with the head, neck or torso. Do not climb over, through or under an electric fence. Use a gate or a specially designed crossing point.
- Electric animal fence constructions that are likely to lead to the entanglement of animals or persons shall be avoided.

- For any two separate electric animal fences, each supplied from a separate energiser independently timed, the distance between the wires of the two electric animal fences shall be at least 2.5 m. If this gap is to be closed, this shall be affected by means of electrically nonconductive material or an isolated metal barrier.
- Barbed wire or razor wire **MUST NOT** be electrified by an energiser.
- A distance of at least 10 m shall be maintained between the energiser earth electrode and any other earthing system connected parts such as the power supply system protective earth or the telecommunication system earth.
- Connecting leads that are run inside buildings shall be effectively insulated from the earthed structural parts of the building. This may be achieved by using insulated high voltage cable.
- Connecting leads that are run underground shall be run in conduit of insulating material or else insulated high voltage cable shall be used. Care must be taken to avoid damage to the connecting leads due to the effects of animal hooves or tractor wheels sinking into the ground.
- Connecting leads shall not be installed in the same conduit as the mains supply wiring, communication cables or data cables.
- Connecting leads and electric fence wires shall not cross above overhead power or communication lines.
- If an electric fence must be installed under or near overhead power lines it should **NOT** run in parallel to it for any big distance. Electric fencing should cross at right angles to the power lines. Distance from ground to top of the fence should not exceed 3 meters near a power line. This height limit applies up to a distance of 2 meters (power line voltage up to 1000 Volts) or 15 meters (power line voltage over 1000 Volts) at ground directly under the outermost conductor of the power line.

The fence or any part of it should be no closer to the overhead wires than those values shown below:

Power Line Voltage Up to 1,000 Volts Clearance 3m

Power Line Voltage 1,000 to 33,000 Volts Clearance 4m

Power Line Voltage Over 33,000 Volts Clearance 8m

- Electric fences intended for deterring birds, household pet containment or training animals such as cows need only be supplied

from low output energisers to obtain satisfactory and safe performance.

- In electric fences intended for deterring birds from roosting on buildings, no electric fence wire shall be connected to the energiser earth electrode. A warning sign shall be fitted to every point where persons may gain ready access to the conductors.
- Where an electric fence crosses a public pathway, a non-electrified gate shall be incorporated in the electric animal fence at that point or a crossing by means of stiles shall be provided. At any such crossing, the adjacent electrified wires shall carry warning signs.
- Ensure that all mains-operated, ancillary equipment connected to the electric animal fence circuit provides a degree of isolation between the fence circuit and the supply mains equivalent to that provided by the energiser.

Protection from the weather shall be provided for the ancillary equipment unless this equipment is certified by the manufacturer as being suitable for use outdoors, and is of a type with a minimum degree of protection IPX4.

Olli Specifications	Protector 11
Maximum pulse voltage	11700 V
Pulse voltage @ 500ohm load	7700 V
Input voltage	230 V, 50 Hz
Nominal input power	14 W
Charged energy	14 J
Maximum pulse energy	11 J
Max. output during alarm	5 J
Max. output if alarm muted	5 J
Delay time	60 seconds
Max output from low power terminal	0,5 J
Entrapment alarm duration	10 minutes
Clean ideal fence length (According to CEE norm)	475 km
Light vegetation	65 km
Moderate vegetation	20 km