



FORTIS SG200 SOLAR ENERGISER INSTALLATION GUIDE



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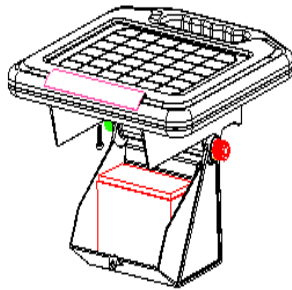
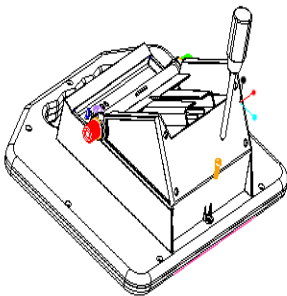
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Installation guide

Installing the battery



1. Place the energiser on a flat surface. Open the battery compartment using a screwdriver (see diagram).
2. Insert the battery.
3. Connect the positive (**red**) lead to the positive (+) terminal on the battery.
4. Connect the negative (**black**) lead to the negative (-) terminal on the battery.
5. Close the battery compartment.

CAUTION: When connecting the battery, be careful not to short-circuit the supply terminals.

POSITIONING THE ENERGISER

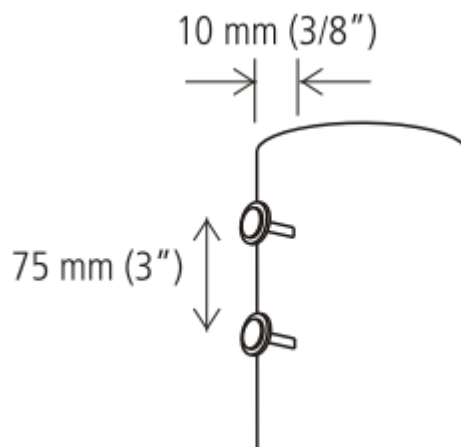
Install the energiser:

- Adjacent to the electric fence
- Preferably in the middle of the electric fence
- Where it will receive the most daily sun throughout the season
- Where a good earth can be obtained
- On firm ground away from flooding and out of reach of animals and children (inside a protective fence, if required)
- The solar panel should face true north in the southern hemisphere and true south in the northern hemisphere.

MOUNTING THE ENERGISER

The energiser can be mounted directly onto a steel Y-post or T-post using the post-mounting slot. To mount onto a wooden post, use the hardware provided.

- Thread washers onto the nails.
- Space the nails 75 mm (3") apart (or one nail-length).
- Hammer in the nails, allowing them to protrude by 10 mm (3/8").
- Slide the energiser onto the nails with the washers inside the post-mounting slot.



CONNECTING TO AN ELECTRIC FENCE

1. Push a 1 m (3'3") earth rod fully into firm ground.
2. Connect the **black** lead from the fence earth terminal on the energiser to the earthing system.
3. Connect the **red** lead from the fence output terminal on the energiser to the fence. Make sure that there is good contact.

CAUTION: Make sure the connecting leads drop downwards from the energiser to prevent water from collecting at the terminals.

OPERATION

The pulse indicator light flashes once for each output pulse.

When switched off, the pulse indicator light stops.

Battery protection model

The intelligent battery management feature puts the energiser into Battery Protection Mode when the battery charge falls below a safe operating level. When in Battery Protection Mode, the energiser is still on, but it will not deliver a pulse to the electric fence.

The energiser will resume delivering pulses when the solar panel has recharged the battery so that it is above the safe operating level.

Alternatively, the battery can be disconnected and recharged with a battery charger, then returned to the battery compartment and reconnected.

BATTERY INFORMATION

Battery charging

The solar panel can fully charge a flat battery in three days, provided that the energiser is switched off and there is adequate sunlight. The battery can also be charged using a 14.4V battery charger suitable for charging rechargeable lead-acid batteries. This should have an output voltage of 14.4V and output current not exceeding 1A.

When fully charged, the battery should be able to power the energiser for over three weeks with no sunlight.

Replacing the battery

If a replacement battery is required, use a 12V, 7.2Ah, rechargeable lead-acid battery.

Do not use a non-rechargeable battery.

Do not dispose of the battery in a landfill or in a fire.

In the event of a spill or leakage from a lead-acid battery

Wear acid-resistant clothing, boots, gloves and a face shield. Contain small spills with dry sand, earth and vermiculite. Do not use combustible materials. If possible, carefully neutralise spilled acid with soda ash, sodium bicarbonate, lime, etc. Do not let acid get into the sewerage system.

Neutralised acid must be managed in accordance with approved local, state and federal requirements. Consult your relevant environmental agency.

ENERGISER MAINTENANCE

Clean the solar panel regularly with a soft cloth using glass cleaner or a mild solution of detergent and water. This ensures the solar panel functions efficiently.

When transporting the energiser, protect the solar panel to prevent the glass surface from being damaged.

Energiser storage

If the energiser is stored for an extended period, the battery may discharge and become damaged. The energiser should be stored inside, next to a window, where sunlight can shine on the energiser each day. If the energiser cannot be stored in a sunny position, it should be kept in a cool place. The battery should be fully charged and disconnected from the energiser.

The battery should be recharged manually every six months using a suitable 14.4 V battery charger.

Contact Information

If you have any further questions or queries, please get in touch:

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