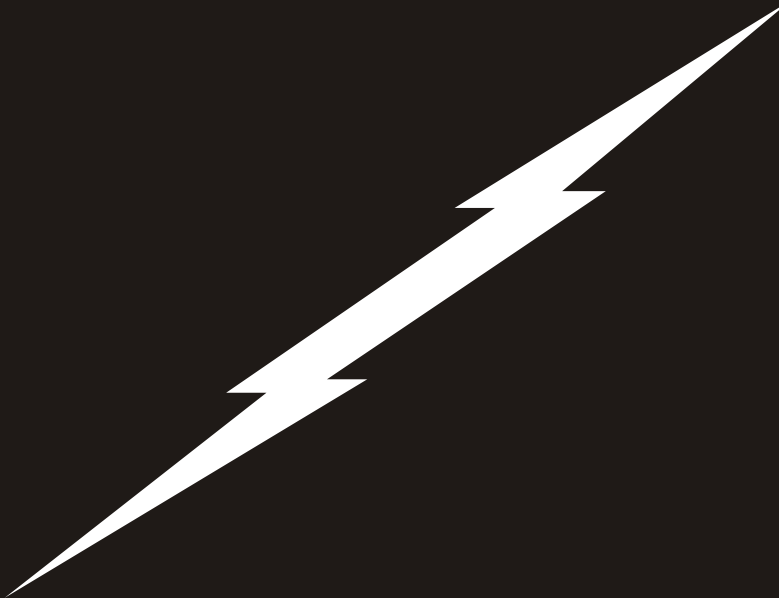




Mains Powered Energiser
Installation Instructions



B5

BATTERY POWERED

WARNING: Do not connect to mains operated equipment.

Build new fence (if required)

To optimise your new energiser's performance, ensure that your fence system is of a high standard, using high quality Stafix accessory products where appropriate.

Install your system

Because the B5 are designed for use in permanent situations, they should be used in conjunction with solar panels or a generating plant.

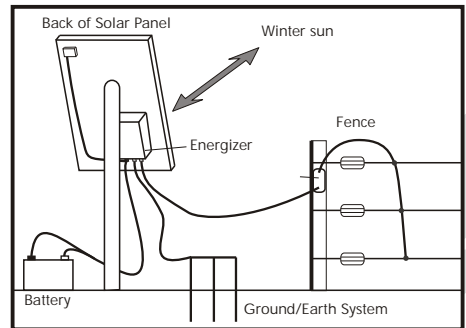
If using solar panel(s), these and the energiser should be mounted in an easily accessible position adjacent to the fence to be electrified and preferably in the middle of the fence system. The system should also be placed where it is not subject to shading from the sun (at any point during the day) and where a good earth can be obtained.

The panel(s) should be mounted facing north in the southern hemisphere and south in the northern hemisphere. The panel tilt should be adjusted for direct sunlight at midday during the middle of winter. This angle depends on the geographic latitude of the site, the further the site is away from the equator the more vertical the panel should be.

When the solar panel is positioned correctly, attach the energiser to the rear of the panel (to protect it from damage).

The number of solar panels required and their tilt angle depends on local conditions. See your local Stafix dealer for guidance. All Stafix solar panels are supplied complete with detailed installation instructions.

Note: Do not power the energiser from a solar panel without also connecting to a 12V external battery.



Protective fence

It is advisable to build an electrified fence around the solar panel to keep stock away.

Install your earth/ground system

For optimum performance of your energiser a suitable earth/ground system must be installed at least 10m (33ft) from other earth/ground systems (ie telephone/mains power). Ideally Stafix Earth rods or Stafix Earth Kits should be used, alternatively galvanised pipe or steel posts can be used as earth rods. Earth rods should be driven 2m (6.5ft) into the soil and spaced at least 3m (10ft) apart

Total recommended minimum earth/ground length	
Energizer Model	Number of 2m (6.5ft) rods
B5	2

Connect earth/ground and fence

Connect the energiser "Earth" (green) terminal to your earth system, preferably using a length of 2.5mm (12.5g) Stafix Insulated cable. Connect the fence to the "Fence High

Output" (red) terminal, again using 2.5mm (12.5g) cable. Use a Stafix Joint Clamp to connect your insulated cable to the fence.

"The Fence Low Output" (yellow) terminal can be connected to fences where high power is not required.

Connect battery

Connect the red clip to the positive (+ve) battery terminal and the black clip to the negative (-ve) terminal.

Batteries must be 12V wet cell deep cycle type for best performance from your energiser. The minimum requirement for the Viper 5000 is 1 x 100Ahr battery and for the Viper 9000 is 2 x 100Ahr batteries.

Battery care

To optimise the expected total life of your battery:

- Avoid completely discharging (100% discharge) of your battery.
- If a battery is accidentally discharged completely, recharge it as soon as possible.
- Batteries should be charged prior to storage then recharged at regular intervals (every 8 weeks) during storage.
- Avoid high temperatures > 50°C (120°F) and keep naked flames and sparks away from battery when recharging. The battery should not be placed directly underneath the energiser.
- Check battery electrolyte level at every recharge and refill, preferably with deionized, distilled or rain water.

Connect solar panel to energiser

Use terminals marked 'solar panel' at base of energizer to connect the solar panel to the energiser.

Operation of the energiser

Turn the pulse speed switch to Slow (approx 2 seconds/pulse) or Fast (approx 1.2 seconds/pulse) as desired.

Hint: Use Fast setting for training animals that have not experienced electric fences before or for feral animal fences. Use Slow for normal running to conserve battery power.

The "Pulse" light will flash with each pulse, indicating that there is a pulse at the output terminals. The Pulse light will get dimmer as fence load increases, indicating that fence maintenance (eg clearing vegetation from fence) is required.

The B5 also feature a Light Sensor function. When the pulse speed switch is set to Light Sensor the energiser will pulse at fast speed during the day and slow speed at night. This function can be reversed (by your retailer to suit the user) to give slow speed during the day and fast speed at night.

The High/Low energy switch can be adjusted manually depending on whether a high output or low output is required. High gives full output and low conserves battery power.

Note: Slow and/or Low switch settings may be required during periods of poor sunlight.

Please save these instructions

Safety Points and Regulations

All energisers must comply with local standard requirements. These requirements may vary from country to country.

In areas prone to bush fires there may be a risk of fire caused by sparking from the fence. In high risk situations, if available, the Fence Low Output should be used, or the energiser should be turned off.

Barbed Wire should never be used for electric fencing.

Energisers should, if possible be installed inside a building in a position free from the risk of mechanical damage. If mounted outdoors they should be mounted on a substantial structure in a position free from risk of mechanical damage.

Avoid erecting a fence which runs parallel to or under power lines. Where this is unavoidable the crossing should be underneath the power lines and as near as possible at right angles to the lines.

If an electric fence has to be installed in the vicinity of an overhead power line, the vertical distance between any fence wire or connecting lead and the surface of the earth should not exceed 2m.

Fence wiring should be installed so that it is well away from any telephone/telegraph line or radio aerial.

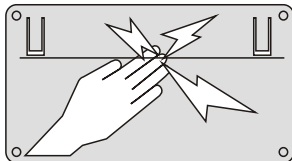
Each energiser should be connected to its own earth system and this should not be connected to any other earth system.

Do not connect more than one energiser to a single electric fence.

Do not connect the energiser simultaneously to a fence and to any other device such as a cattle trainer or poultry trainer, otherwise lightning striking your fence will be conducted to all other devices.

When an electric fence is installed where it might reasonably be expected to be touched by the public then warning signs must be attached. The warning sign must be at least 200mm x 100mm (8" x 4") in size and should be attached at intervals not exceeding 90m (295ft).

The sign should display the symbol below or the words "Electric Fence".



The inscription should be indelible and any lettering should have a height of at least 35mm (1 1/3"). It is recommended that the basic colour of the sign be yellow with black inscription.

When the energiser is used to supply a system of conductors used for deterring birds from roosting on buildings, no conductor should be connected to earth. A switch should be installed to provide means of isolating the energizer from all poles of the supply and clear warning signs should be fitted at every point where a person may have ready access to the conductors. The notice should bear the words "LIVE WIRES" in block letters not less than 13mm (1/2") high, the letters should be red on a white background and the size of each notice should be not less than 62mm x 50mm (2 1/2" x 2") overall.



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