

WOLSELEY

SX300 Mk II Solar Powered Energiser



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The Wolseley SX300 Mk II is a portable, self-contained solar powered fence energiser, featuring a unique three-way hybrid system unique to Wolseley. The system combines solar power, new generation NiMH rechargeable batteries and a standby power back up provided by Replaceable alkaline "C" cell batteries. These are all fully integrated and the power source is automatically routed depending on the level of solar energy available.

The Wolseley SX300 Mk II features an auto night-saver mode to ensure full solar recovery of the rechargeable batteries during daylight hours. If there is a prolonged period of insufficient daylight to generate solar power, the system will automatically switch to the internal back up batteries. If there continues to be insufficient daylight to allow recovery of the rechargeable batteries, the backup batteries will only last for 10–14 days. If these conditions persist, YOU WILL NEED TO CONNECT THE SX300 TO A 6v, 9v OR 12v BATTERY with the lead kit provided. The system automatically reverts to the full solar mode as soon as there is sufficient daylight to generate the energy required.

General Information

1. **Warning: Danger of electric shock!** Handle with care and always ensure the switch is In the "off" position before handling. Only carry out installation when equipment is turned off.
2. For safety reasons, never connect this unit to mains operated equipment.
3. Always remove the backup "C" cell batteries when the unit is put into storage.
4. We recommend new alkaline good quality "C" cell batteries are installed every season.
5. Keep the solar panel clean at all times. Wipe with a damp cloth and dry to a shine to maintain maximum efficiency.
6. The Wolseley SX300 Mk II is suitable for use with cows, horses, goats, sheep, chickens, pigs and rabbits.
7. The Wolseley SX300 Mk II can be used with polytape, polywire/rope, galvanised wire and netting.
8. The warranty form should be completed and returned to Stockshop (Livestock Equipment) Ltd within 28 days.

Operating Instructions

1. The backup batteries are already fitted. If you need to change them, ensure the energiser is switched off. Release the bottom cover by squeezing the two black catches inwards (towards the switch). Pull the cover down to expose the batteries. Place three new, top quality "C" cell batteries in the housing, observing the correct polarity. Replace the bottom cover and snap into position over the black catches. (*See Diagram 1.*) Please note it is not possible to change the rechargeable batteries.
2. You will need to purchase an earth stake (P/no 34399). Push the earth stake as far into the ground as possible - the deeper the stake, the better the earth. Ensure the earth around the stake is damp. For dry or well drained soil more than one earth stake may be necessary. In dry areas, several buckets of water around the earth stake may be necessary to improve its efficiency.
3. Mount the Wolseley SX300 Mk II on the earth stake. Ensure that it is exposed to full daylight as any kind of shading, even partial, will reduce the efficiency of the unit. For best results, the angled face should face the rising sun. Keep the tempered glass panel clean at all times. Connect the green earth lead to the earth stake. Connect the blue fence lead to the fence line, ensuring a good contact. Make sure there is no vegetation touching the line. Turn the unit on by sliding the switch on the underside.
4. There are three indicator lights on the Wolseley SX300 Mk II (*see Diagram 2*).
 - The blue indicator in the middle shows that the system is running. Output is delivered to the fence each time the blue LED pulses.
 - The yellow indicator to the left indicates the level of solar activity within the system - the brighter the LED becomes, the more solar output is delivered to

the rechargeable batteries. A bright solar indicator also means the batteries are fully charged.

- The indicator to the right is a battery status indicator that will shine either green or red. When the fence is switched on, a green light illuminates for a few seconds to confirm the backup batteries are in good condition. If the red light shows, the backup batteries need to be replaced as soon as possible or the unit needs to be connected to a 6v, 9v or 12v battery.



Diagram 1



Diagram 2

Connecting an External Battery

1. The Wolseley SX300 Mk II is supplied with a lead kit with suitable adaptors for it to be fitted to a 6v, 9v or 12v battery. Always connect the battery leads to the back of the solar panel before connecting to the battery of choice. Please note that you will need to connect the black wire to the black terminal and the red wire to the red terminal. A red light on the underside of the solar panel illuminates when the external battery is connected correctly.
2. There are conventional crocodile clips supplied to connect to 12v batteries along with short plug-in connector leads to adapt to high capacity 9v alkaline fence batteries.

Specifications		
Case and solar panel frame moulded in white ultra violet stabilised polypropylene.		
Solar panel is a high efficiency monocrystalline type on tempered glass of excellent quality and long life		
Stored Energy (Joules)	1.9	-
	Open load	500 Ohm load
Output Voltage	8.2kv	4.8kv
Max Fence length 20km	(Single strand galvanised fencing wire)	

DISPOSAL AND RECYCLING INFORMATION Thank you for purchasing the **Wolseley SX300** energiser. Please familiarise yourself with the operator instructions for your product and always use only for the purpose it was designed. At any point in the future, should you decide to dispose of, or replace your product, please ensure that you do **NOT** dispose of it in a **Landfill** site. Please Only dispose of it at a **registered recycling facility**, more information on which can be found at WWW.RECYCLE-MORE.CO.UK . Also ensure that any batteries where fitted, are removed and recycled in the correct manner.



For any further advice on recycling our products, please contact our UK Service Department on 01392 460077, who will be pleased to help.

W.E.E REGISTRATION NUMBER: WEE/GGO133ZR/PRO

Safety Requirements and Regulations

Electric fences shall be installed and operated so that they cause no electrical hazard to persons, animals or their surroundings.

- Electric fence constructions, which are likely to lead to entanglement of animals or persons, shall be avoided.
- An electric fence shall not be supplied from more than one energiser or from independent fence circuits of the same energiser.
- The gap between two separate electric fences with different energisers shall be at least 2m.
- If this gap is to be closed, this should be affected by means of an electrically non conductive material.
- Barbed or razor wire shall not be electrified by an energiser.
- Any part of an electric fence which is installed along a public path or highway shall be identified by warning signs (p/no 33020) securely fastened to the fence posts or firmly clamped to the fence wires at recommended intervals of approximately 10 metres to 50 metres, but not exceeding 90 metres. Warning signs should be at least 100mm x 200mm with a yellow background. The inscription shall be black and read: **TAKE CARE - ELECTRIC FENCE**, it should be indelible and inscribed on both sides, lettering height of at least 25mm.
- Except for low output battery operated energisers, the energiser earth electrode shall penetrate the ground to a depth of at least 1m.
- Connecting leads that are run inside buildings shall be effectively insulated from the earth structural parts of the building. This may be achieved by using double insulated high voltage cable (p/no 31640). Connecting leads that are run underground shall be run in a conduit of insulating material.
- Care shall 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.
- Crossings with overhead cables shall be avoided wherever possible. If such a crossing cannot be avoided, it shall be made underneath the power line and as nearly as possible at right angles to it.
- If connecting leads and electric fences are installed near an overhead power line the clearances shall be:
 1. **Power Line Voltage:** Under 1000 volts - **Clearance:** 3 Metres
 2. **Power Line Voltage:** 1000 - 33,000 volts - **Clearance:** 4 Metres
 3. **Power Line Voltage:** Over 33,000 volts - **Clearance:** 8 Metres
- If connecting leads and electric fence wires are installed near an overhead power line, their height above ground shall not exceed 2m. This height applies either side of the orthogonal projection of the outermost conductors of the power line on the ground surface, for a distance of - 2m for power lines not exceeding 1000V - 15m for power lines exceeding 1000V.
- A distance of 10m shall be maintained between the energiser and any other earth system such as the household supply system protective earth or the telecom system earth.
- A warning sign as described earlier, shall be fitted to every point where persons may gain ready access to the conductors.
- Where an electric animal fence crosses a public pathway, a non-electrified gate shall be incorporated in the electric 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 as described earlier.

Please retain instructions for future reference.