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HARDWARE&WIRE MESH PRODUCTS CO.,LTD

TLWY[®]
TaiLong Fence



SOLAR FENCE
SOLAR FENCE



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Solar Fence

A solar fence is an innovative design that uses solar panels to power a fence. It is commonly used in agriculture, home security, and privacy protection, and is particularly useful in areas without a stable power supply. The working principle of a solar fence is to capture sunlight through solar panels, converting it into electricity to power the fence's electrical system.





DESCRIPTION

Solar fences utilize vertically mounted photovoltaic panels that generate electricity from both the front and back. These panels are cleverly integrated with a frame consisting of posts and crossbars to form a system that can be used as a fence, privacy screen, design element, partition, or large outdoor installation.

This allows for the production of photovoltaic power for multiple uses, even under unfavorable roof conditions, without prolonged downtime due to winter snow accumulation, while also saving space.

Unlike other installation methods, this method is simple and safe to maintain.

Solar Fence is available in two standard heights to accommodate common residential fencing needs and zoning requirements.

- 4-foot height

Best suited for boundary definition and lower-profile installations where full privacy is not required.

- 6-foot height

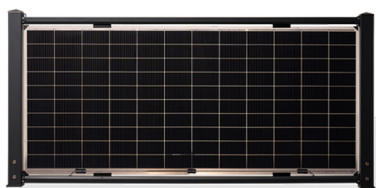
Provides full privacy and allows for maximum solar panel integration along the fence line.

Height selection is finalized during the design phase based on privacy goals, site conditions, and local regulations.

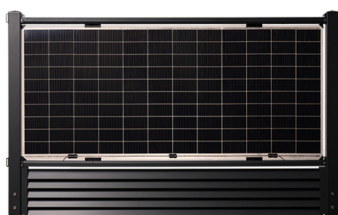


CATEGORY

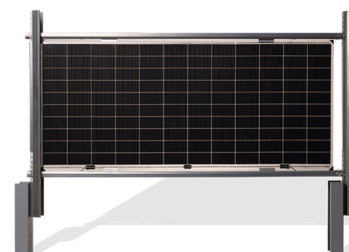
Different Style



Type1



Type2



Type3



Type4



Type5

Advantages

1. **Environmentally Friendly Energy Production:** Converts solar energy into solar power. This saves you money and protects the environment.
2. **Privacy Screen:** Protects you from prying eyes, enhancing your privacy.
3. **Noise Protection:** Enjoy your garden undisturbed by street noise.
4. **Windbreak:** Protects people, animals, and wind-sensitive plants from gusts and strong winds.
5. **Security and Fence:** Clearly defines your private territory, preventing strangers from entering.
6. **Pasture and Animal Boundaries:** Protects your animals, whether pets or livestock.
7. **A More Affordable Alternative to Roofing Systems:** This affordable purchase saves you money compared to roofing systems.
8. **Diverse Design Options:** You can choose from various components and sizes of your solar fence.
9. **Easy Assembly:** Easily and quickly assemble your solar fence—completely without external assistance.



FEATURES & APPLICATION

✔ Designed to Fit Your Property

Solar Fence is designed to integrate cleanly into residential properties while allowing flexibility in layout, height, and panel configuration. Each installation is custom-designed to balance privacy needs, sun exposure, and overall property aesthetics.

✔ Solar & Non-Solar Panel Configurations

Solar Fence allows solar panels and traditional privacy panels to be combined within the same fence system. Solar panels can be installed only where sun exposure is optimal, while non-solar vinyl privacy panels or ornamental aluminum panels can be used in shaded areas or where energy production is not desired. This flexible approach allows the fence to meet both privacy and energy goals while maintaining a consistent appearance across the property.

✔ Frame Color & Finish

The standard Sol Fence frame is finished in black, offering a clean, modern appearance that complements both the solar panels and surrounding landscape. Additional frame colors may be available depending on project requirements and material availability.

✔ Gates & Access Points

Solar Fence systems can include pedestrian or vehicle gates. Gate placement and design are coordinated with the overall fence layout to maintain structural integrity and visual consistency. Gate infill materials may vary depending on functional and design requirements and are finalized during the planning process. (Gates do not contain solar panels.)

✔ Terrain & Layout Considerations

Solar Fence performs best on relatively level ground. Because the solar panels are square and vertically aligned, installations on sloped terrain may result in a stepped appearance rather than continuous slope. fence layout and panel placement are reviewed carefully to ensure the finished installation meets both functional and aesthetic expectations.

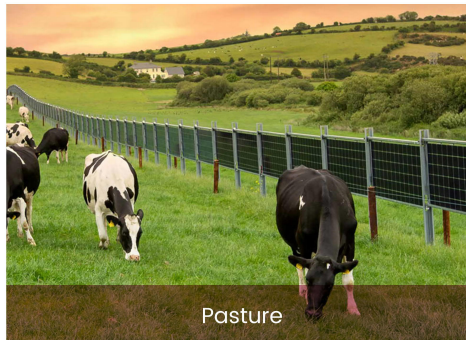
APPLICATION



Commercial Protection



Farm



Pasture



Private Residence



Windbreak



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