



Solar Security Fencing



Solar security fencing is the most complete form of physical security

- Most human beings are inherently afraid of electrified wire. This powerful deterrent effect transfers crime and vandalism to neighboring properties with lesser protection
- Sophisticated fence monitoring and alarm signaling capability deals with more determined intruders from the moment they attack the fence
- The technology is safe and remarkably tolerant of environmental conditions. The resultant reliability makes it ideal for unmanned and remote sites
- It's very affordable.



Solar Powered Fence

- Is a most effective and viable perimeter security alternative that meets present day needs.
- Provides maximum protection against intrusion, theft, pilferage, sabotage
- Is an active deterrent - not only delays / denies entry to a secured area but detects intrusion and indicates the area of attempted intrusion on a graphic panel in the Control Room.
- Can be added to or replaces any existing perimeter wall, chain link fence -Full Fence or Wall Top
- Can be integrated with Access Control Systems, Security Lighting, CCTV Systems, Auto Dialers can activate a hooter, siren or flood lights on intrusion alarm.

Solar Powered Fences are powered by an ENERGIZER which sends out high voltage monitored pulses into the fence at controlled intervals. An intruder or trespasser gets a very sharp, short and painful shock. Solar Powered Fence is the physical barrier but the shock is the real barrier - a psychological barrier created in mind of the person, who has experienced the shock!!!. The shock given by the fence is completely safe as it lasts only 3 millionths of a second with energy output of 4 - 5 joules, an internationally accepted standard for such types of fences, worldwide.

Ideal for installation at:

Very high threat perception areas such as Political, Defense and strategic establishments of all types (ammunition/armament factories, dumps & depots, naval stations, army outposts), Civil airports and Military airbases and runways, International borders, Prisons, Helipads, Mines, Mints, Factories and Plants, Office and residential complexes, Warehouses, Country Clubs, Farms and Farm Houses, Bungalows, Open stockyards (Cars, Oil, builders materials).



ENERGIZER



MAINS OR BATTERY POWER SUPPLY

The EMU internal energy source can either be battery & mains power, or battery & solar power. It means the EMU can be used on the most remote sites, and with low power consumption and a large internal reserve the system will continue to operate through lengthy power interruptions.

INTELLIGENT KEY PAD

User friendly software and fault diagnostics are accessed through the intelligent key pad. Simple code inputs can change pins, delay times, fence voltages etc. to suit end user circumstances.

FENCE LINE VOLTAGE CONTROL

Tailor the system to suit required security levels and to accommodate operating and local environment conditions by:

- Setting the fence line voltage when armed
- Setting the alarm trip voltage
- Monitoring at low fence voltage to maintain perimeter security with 'safe' voltages during normal working hours.
- Using dynamic voltage monitoring to counter the effect of seasonal vegetation growth.
- User friendly software and fault diagnostics are accessed through the intelligent key pad. Simple code inputs can change pins, delay times, fence voltages etc. to suit end user circumstances.



ENERGIZER SPECIFICATIONS

Stored Energy : 5.6 J
Maximum output energy : 4 J
Open circuit : Up to 10,000 V
1000 W light load : up to 8000 V
500 W medium load : up to 7000 V
100 W heavy load : up to 3000 V
Pulse Rate : 1.5 s
Battery life after mains power failure :
+ 37 hours with low level 4 KV output power + 11 hours with high level 9.2 KV output power

INPUT POWER SPECIFICATIONS

EMU : Ac16 V 1.2 A 50/60 Hz or DC 24 V 1 A
Remote Keypad : 12 V DC 50 mA
Remote Keypad : 12 V DC 50 mA
Internal Battery : 12 V 7. Ah SLA
Power Pack : 230 V/16 V 16 VA or 115V/16 V 16 VA
Gate switch voltage : 12 V DC
Gate switch current : 10 mA

SIREN AND STROBE LIGHT SPECIFICATIONS

Maximum siren size : 15 W @ 12 V DC
Maximum siren rated current : 1.25 A @ 12 V DC
Maximum strobe size : 2.5 W @ 12 V DC
Normal strobe rated current : 200 mA @ 12 V DC






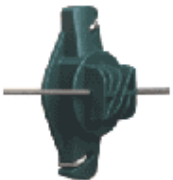
SOLAR POWERED BATTERY CONNECTIVITY

Using a cable kit the EMX can operate from a low voltage DC supply such as a solar battery, making it ideal for remote site security.



High performance - UV spectrum sensitive amorphous silicon solar panels are ideal for security applications because they are unbreakable. They will continue to provide power even with bullet holes in them.

A 120 Ah deep cycle battery is recommended with 1 or 2 x 32 W solar panels depending on geographical location



Insulators	
	High Strain Assembly with hook, clips and spring. Black or grey.
	'W' or Claw Insulators Insulator fitted to staple hook post with barbed staples. Black only.
	Porcelain Bobbin Insulator Useful on corner posts. High strength and inexpensive.
	Steel 'Y' Post Insulators Pink lock Attachment to wire and post.
	Concrete Post Insulators Black only.
	Claw Insulators Large shield to prevent arcing. Easily attached with nails or staples. Heavy duty claw fittings for maximum strength. Green only.



Accessories	
	Earth Clamp Galvanized clamp for earth stake.
	Warning Sign Bright yellow plastic sign. Hangs on fence wire or nail to post.