



DIN EN ISO 9001:2000



C R No. 85 100 001 07774

CROWN SOLAR POWER FENCING SYSTEMS

PROVIDING SECURITY SOLUTIONS TO THE NATION



**SOLAR FENCING SYSTEM
FOR RESIDENCES**



**POWER FENCING SYSTEM
FOR ESTABLISHMENTS**

www.crownsolar.com

Crown Solar Power Fencing Systems

CROWN Solar Power Fencing Systems (CSPFS) is one of the pioneer in manufacturing various Solar based systems and Solar based components in the Country since 2001. CSPFS is an ISO 9001:2000 compliant firm, awarded by TUV for the development, manufacturing, installation and servicing of Solar Powered Fencing systems manufactured by us.

Due to the changing scenario of security threats worldwide the time has come to think differently in protecting your family and properties.

Basically Electric fence also known as Solar fence / Electric Security fence / Security fence / Power fence / Electro fence is divided into Four major categories i.e. Agriculture fence, Forest fence, Security fence and High Security fence depending on its applications.



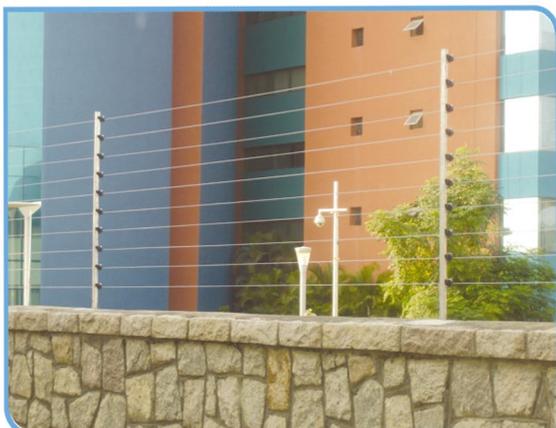
Agriculture fence :

Fence is designed to protect agriculture crops from domestic and wild animals like Wild Boar, Monkeys, Cows, Buffaloes, Gaur, Daisy etc. Fence design shall be exclusively to meet the targeted animal(s) installed around the crop using existing posts. Posts can be Wooden, RCC, Stone, etc duly grouted on the ground to carry fence strands along the perimeter.

Total number of strands, gap between stands height of the fence shall be designed based on the targeted animal(s).

Forest Fence :

Fence is designed to protect villages located in the forest or nearby forest areas. Main threat to the villagers shall be from wild Elephants and Bears. In general the fence shall consist of 5 strands from ground level with fence height of about 6 feet. Recommended posts for the fence construction shall be MS galvanized of 8.5 feet length. Fence may also have elephant capping to protect metal posts from wild elephants.



Security Fence :

Security Fence is designed to keep out predators, thieves, trespassers and vandals. Major applications shall be to protect Residences, Godowns, Manufacturing units, Gated Communities, Police Stations, Schools & Colleges etc., from any intrusion. System will not only detect but also deny intrusion by giving a short, sharp and safe shock to the intruder. It consists of minimum 10 strands on wall top (in general) and minimum number of Powering units.

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Powering unit shall consist of Single channel Energizer, Alarm unit, Charger, Battery, Metal enclosure and Neon tester. Maximum length that can be covered using a Powering unit is 12000 running meters. Gate can also be electrified without causing any inconvenience to the users. It denies entry by climbing the gate.

System shall raise an alarm upon:

Tampering, Cutting of strands, Shorting of live and ground strands, Climbing fence with the help of heavy-duty insulation, Battery low, Unauthorized switching off Energizer etc.

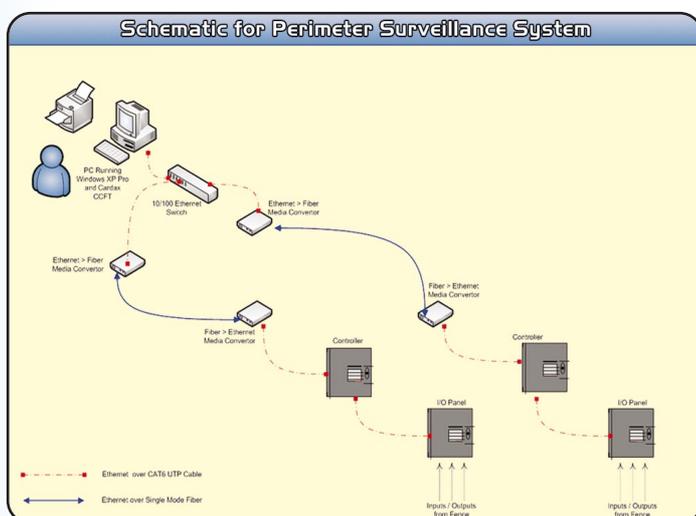


When properly designed and installed, a security fence is the least expensive, *safest*, and most secure method for securing property and lives when compared to walls, other types of fences, human guards and watchdogs. The fence does NOT sleep. The fence CANNOT be bribed. The fence does NOT require food or water. A well-designed electric fence has more deterrence value than a guard with a sawed off shotgun or a snarling pit bull.

High-security fence :

Advanced version of Security fence can be considered as High-security fence. It is designed to protect premises from all types of intrusions and make the perimeter a foolproof system. This is achieved through a PC based Central Monitoring System (CMS) which will be controlling as well as monitoring all the Powering units installed in the premises. CMS operates on specially designed software to generate a real time based control system.

Entire perimeter is divided into zones depending on the level of security required. Zone length shall vary from 200 meters to 500 meters. Every powering unit will have a Dual channel Energizer, Alarm unit, Field Controller, Charger, Battery, Metallic enclosure and Digital Voltmeter. Depending on the requirement every gate can be treated as a separate zone or it can be a part of a zone.



Field controller monitors the operation and intrusion of a specified zone(s) and communicated with CMS located at a distance. Any cutting of cable will immediately trigger alarm at CMS indicating zone on the PC screen. Graphical representation of the perimeter is depicted on the PC with zones marked on it. Any tampering will be indicated on the PC screen at CMS along with audio siren.

Communication between field controllers and CMS can be through cable (CAT5e / OFC) or wireless depending on the Customer requirement.

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Advantages of Power Fencing Systems are :

Low Cost
Long Life
Tailor made to suit Customer need
Low Maintenance
Upgradable
Supports Existing System

Ease of Construction
Universal Application
Simplicity & Flexibility
Non-Lethal
Guaranteed Reliability

Special features of components :

Energizer Model - CS 250 complies to Safety standards of IS 301-2-76(1999) duly tested by ETDC, Bangalore. It can withstand up to a temperature of 55 deg C, tested and certified by Field Test Station (Government of India), Hyderabad.

All metal components like Wire tightners, Hooks etc are galvanized as per IS : 4759/96 Standards Reel insulators and Strain insulators are UV stabilized and can withstand more than 15KV.

High tensile wire shall be 12G and heavily galvanized with 99.95% zinc purity.

All metal posts shall be either Galvanized or Powder coated.

Energizer Features :

Input voltage	10 - 14 Volts DC
Output voltage	6000 Volts to 9900 Volts
Output energy	2.5 - 8 Joules
Pulse duration	0.03 seconds
Pulse interval	1.2 seconds
Alarm generation	After 2 missing pulses (Variable)
Potential free contacts	Availabe, to integrate with CMS



Note : Specifications are subject to change without prior notice.

Other products produced and / or marketed by us are Solar lighting systems, (Indoor & Outdoor) Solar water heating systems & solar power plants. We also design and install customer based solar systems.

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