

# Crown Solar Power Fencing Systems

## Advantages of Power Fencing Systems :

Low Cost	Ease of Construction
Long Life	Universal Application
Tailor made to suit Customer need	Simplicity & Flexibility
Low Maintenance	Non - Lethal
Upgradable	Guaranteed Reliability
Supports Existing System and site conditions :	



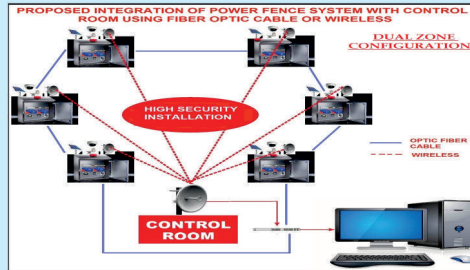
## Special features of components :

Energizer Model - CS 250 is CE marked and complies with Indian Safety standards vide no. IS 302 - 2 - 76 (1999), IS 8437 (Part-I), International Safety standards vide no. IEC 60335 - 2 - 76 and EMC standards. System operates at robust climatic conditions and can work at a temperature of more than 70°C with humidity of less than 96%.

All metal components like Posts, Wire tightners, Hooks etc are galvanized as per IS:4759/96 Standards, Reel / Anti climbing insulators and Strain insulators are UV stabilized and can withstand more than 15KV. High tensile wire will be 12G and heavily galvanized with 99.95% zinc purity, in compliance with IS 398 Part - II.

## Energizer Features :

Input voltage	12 Volts DC
Output voltage	>6000 Volts on Load (Programmable)
Output energy	2.5 – 5 Joules
Pulse duration	3m seconds
Pulse interval	1.2 seconds
Alarm generation	After 2 missing pulses (Programmable)
Integration facility	Can be Integrated with CCTV or any other gadgets
Front Panel	LCD with programmable keypad
Protection	Password- User & Master (Optional)



**Note:** Specifications are subject to change without prior notice.

Other products marketed by us are Perimeter Intrusion Detection Systems, CCTV Surveillance system, Access control systems, Solar Power systems etc.,

Please visit our website : [www.crownsolar.com](http://www.crownsolar.com) or contact us from more details:

## CROWN SOLAR POWER FENCING SYSTEMS

123/A, Ushodaya Towers, Shapurnagar,  
Jeedimetla, Hyderabad - 500 055, TS, India.  
Phone : 040-23091373, Tele Fax : 040-2319 5702  
E-mail : [chandra@crownsolar.com](mailto:chandra@crownsolar.com)  
[crownsolar@yahoo.com](mailto:crownsolar@yahoo.com)

## OTHER GROUP COMPANIES

[www.crownpolypacks.com](http://www.crownpolypacks.com)  
[www.crowntechno.com](http://www.crowntechno.com)

[www.crownsolar.com](http://www.crownsolar.com)



Power Fencing System for  
Residence / Offices



Power Fencing System  
For Establishments &  
Critical Installations



Power Fencing System For High  
Security Applications



# CROWN SOLAR POWER FENCING SYSTEMS

"Providing Advanced Security Solutions for a Better & Secured Premises"

[www.crownsolar.com](http://www.crownsolar.com)

## Crown Solar Power Fencing Systems

**CROWN** Solar Power Fencing Systems (CSPFS) is a division of CROWN Group of Companies, based in Hyderabad, INDIA. CSPFS is a LEADER in manufacturing various Security based systems and components in India since 2003. CSPFS is an ISO 9001:2015 complaint firm, awarded by URS for the Design, Manufacture, Installation and Servicing of Solar and Electric Fencing systems.

Due to the changing scenario of security threats worldwide the time has come to think differently in protecting Critical Installations, Establishments, Residences etc.

**PRINCIPLE OF OPERATION:** An electric fence energizer converts 12V DC energy input into a high voltage pulses. These pulses are fed to fence line constructed on Wall top / Ground level. There will be about 50 pulses per minute with pulse duration of about 3 msec.

These pulses are commonly referred to as the "shock" and is felt by any intruder who comes in contact with the electrified fence. When the animal or intruder makes contact with the fence the circuit is complete through their body & the ground. It is at this point the intruder receives a shock. It is the shock, which deters the intruder / animal from putting pressure on the fence line.

An electric fence is Non-lethal and acts as a psychological barrier rather than a physical one so the intruder must be educated to respect the fence. The shock experienced is Short, Sharp and Safe. The pain that an intruder feels is short lived and does not physically harm, unlike barbed wire, which can cause severe cuts and long lasting pain whilst also damaging the hide.

Basically Electric fence also known as Solar fence / Electric 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 and site requirements.



**AGRICULTURE FENCE :** Fence is designed to protect agriculture crops from domestic and wild animals like Wild boar, Monkeys, Cows, Buffaloes, Gaur, Daisy, Nilghai etc. Fence design shall be exclusively to meet the targeted animal (s) installed around the crop using existing posts, if any. Posts can be Wooden, RCC, Stone, etc duly grouted on the ground to carry fence strands along the perimeter. Fence Parameters like total number of strands, gap between strands, height of the fence etc shall be designed based on the targeted animal (s).



**FOREST FENCE :** Fence is designed to protect cluster of villages located in the forest or nearby forest areas from wild animals. 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 Live post, elephant capping / toupee etc., to protect 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. We recommend a minimum height of 1 meter on wall top and 1.8 meter on ground level fence. Gap between strands can be designed to meet site requirements.

## Crown Solar Power Fencing Systems



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 single channel Energizer unit is running meters. Gate top can also be electrified without causing any inconvenience to the users. It denies entry from climbing the gate.

### System shall raise an alarm upon :

Tampering, Cutting of strands, Shorting of live and ground strands, Climbing on fence, Battery low, Unauthorized switching off Energizer ( Optional ) etc.

When properly designed and installed, a security fence is the least expensive, safest, and most dependable technology for securing property and lives when compared to walls, other types of fence, 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 with Integration 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) operates on specially designed CROWN Fence Secure software to generate a real time based control system.

Entire perimeter will be divided into zones depending on the level of security required. Zone length shall vary from 100 meters to 500 meters. Every powering unit will have 2 nos. of Single channel Energizer, Alarm unit, Field Controller, Charger, Battery, Metallic enclosure and Neon Tester. Depending on the requirement every gate can be treated as a separate zone or it can be a part of adjacent zone.

Field controller monitors the operation and intrusion of a tampered zone (s) will communicate with CMS located at a distance. Any cutting of cable will immediately trigger alarm at CMS indicating zone of tamper 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 achieved using cable ( LAN/ OFC ) or wireless depending on the Customer requirement and site conditions.

