We are pleased to introduce the SPC system to help curb solar panel theft.

55kWp Rooftop solar array secured with the SPC system
(New school at Vanderbijl Park, South Africa)

The patented SPC (Solar Panel Clamp) system consists of various brackets that attach solar panels very securely onto an array mounting structure, either roof, tower or ground based.

“With conventional solar panel mounting systems, thieves easily remove the first row of clamps and then pop the rest of the panels from the array very quickly.”

“In previous systems we have witnessed tremendous losses of solar panels.”

“With inputs from Reutech Solutions Interlock Systems designed the SPC system, the clamps are very difficult to remove, and even if a first row is removed, the remainder of the panels is held in place due to the SPC clamp design.”

Mr. Geoff Cooke
Background:

Solar panel theft remains a huge hurdle towards implementation of green technologies. The problem is encountered all over the world. Typical European “anti-theft” systems consist of only a specialized bolt that requires a special tool to remove easily. This only stops an honest thief. Here in Africa we've seen the tremendous vigor with which solar panels are stolen. Most aluminium mounting structures are destroyed regardless of special bolts used and the panels are ripped out with force.

In a documented case in South Africa, half of the panels in a 300-panel large array were removed overnight, almost immediately after installation. This leads to significant financial loss and discourages investors in green technology.

Solar users in remote areas face even bigger challenges.

Typical stolen solar panel array (South Africa)

SPC – Overview

The Solar Panel Clamp system is used to mount PV panels onto a mounting structure such that the PV Panel is extremely difficult to remove with any type of hand tool. The SPC system holds the PV Panel from the top and the bottom. Even if one panel in an array is loosened, it remains attached at the opposite end. The SPC system is manufactured from Stainless steel for a long life expectancy.
SPC End clamp securing a 250Wp Panel

SPC Mid clamps visible between the PV Panels

Please contact our office for further detail, demonstrations and pricing.

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Did you know?

Interlock Systems has secured thousands of solar panels and related equipment in extremely remote areas. Besides the SPC (Solar Panel Clamp) our range of security items includes:
- Secure enclosures of various sizes for batteries and equipment
- Secure doors for buildings (such as electrical rooms)
- Solar borehole pump protection equipment
- Solar towers – anti-theft and anti-vandal

SPX – Solar Panel eXtreme – Sizes 20W, 50W and 80W. The solar panel is enclosed in a heavy duty stainless steel frame with impact resistant window. Typically used for monitoring and telemetry systems. The SPX frames are typically mounted onto a secure enclosure or specialized support stand.

SUB (Secure Utility Box) range of enclosures – We design and manufacture a range of high security equipment and battery enclosures to prevent theft and vandalism.

Shown left: Secure Battery, Inverter and Charge controller equipment shelter.