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Power Analysis of Selected Configuration Modes of a Solar Powered Ultrasound Pest Control System

A solar powered ultrasound pest control system comprising of the standalone device and the booster units were designed, implemented and their performance evaluated both in laboratories and in farms. The concern of this work is to explore better configuration options which can be applied in large farm type, formulate the mathematical expressions relating the area of ultrasound coverage on a farm to the number of booster units required and the associated power analysis indicating the solar panel and battery requirement when such configurations are implemented.

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