

**Espay Solar Energy S.L.**

# **Growing *Bupleurum chinense* under photovoltaic panels**



## Overview

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Both species showed high plasticity, and maintained growth and development by regulating their morphology and photosynthetic parameters. In the APV increased its light use efficiency, photosynthetic rate, and root biomass by increasing its height, electron transfer flux, and. *B. sativa* in the APV allocated more energy to photochemical reactions to improve photosynthetic. In particular, the shading created by photovoltaic panels weakens the quantity and changes the quality of the light, which can also alleviate the damage to plant photosynthetic mechanisms caused by excessive light under field conditions [18, 19]. It is in flower from July to October, and the seeds ripen from September to October.

## Growing Bupleurum chinense under photovoltaic panels

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### Can You Grow Peucedanum Chinese Under Solar Panels? The ...

A 2023 study from Shandong Agricultural University revealed something fascinating - partial shading from solar panels actually increased bioactive compounds in P. chinense by 12-18%.

### Planting Chinese herbal medicine under photovoltaic panels

To provide insights, we compared agrophotovoltaic and traditional ecosystems to explore the economic feasibility of planting Bupleurum chinense (B. chinense) and Medicago sativa (M. sativa) from the ...



### Bupleurum chinense and Medicago sativa sustain their growth in

In this article, the authors showed that growth under solar panels reduced tomato and pepper drought stress and increased production, while simultaneously reducing photovoltaic panel



### Can Bupleurum be planted under

## photovoltaic panels

Researchers in South Korea have been growing broccoli underneath photovoltaic panels. The panels are positioned 2-3 metres off the ground and sit at an angle of 30 degrees, providing shade and ...



## Bupleurum chinense and Medicago sativa sustain their growth

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## Bupleurum chinense Bei Chai Hu PFAF Plant Database

Division in spring. Very easy, larger clumps can be planted direct into their permanent positions. It is best to pot up smaller clumps and grow them on in a cold frame until they are well rooted before ...



## Bupleurum chinense and Medicago sativa sustain their ...

The combination can solve conflicts among utilization of resources,

ecological protection, and agricultural production to achieve low-carbon economic ...



### Response of soil microecology to different cropping practice under

The chemical properties and the microbiome of rhizosphere soil of *B. chinense* were assessed in the field trial with three cropping practices (continuous monocropping, *Bupleurum*-corn intercropping ...



- LIQUID/AIR COOLING
- INTELLIGENT INTEGRATION
- PROTECTION IP54/IP55
- BATTERY /6000 CYCLES



### The microclimatic and ecohydrological effects of photovoltaic

Herbs and cash crops, such as *Astragali Radix*, *Bupleurum chinense*, *Saposhnikovia divaricate*, and *Medicago sativa*, have been planted underneath the PV panels, forming an ...

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