

smartFLAP®

PV substructure for First Solar Series 6 modules

Genius three steps – safe, easy, fast

First Solar®
Ecosystem Partner

smartFLAP®

Genius three step module mounting

What's smartFLAP?

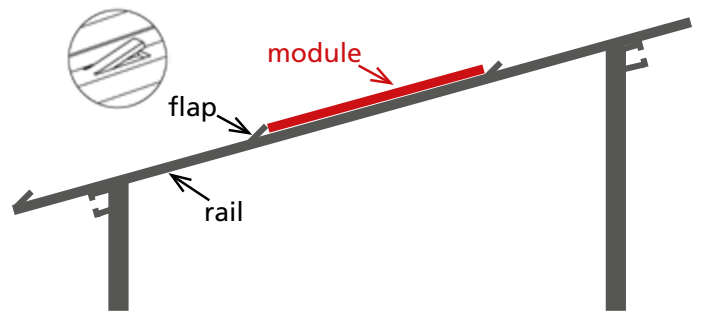
smartFLAP is a PV fixed tilt substructure for large photovoltaic modules. The system is optimized for FirstSolar Series 6 modules.

What's special?

smartFLAP PV substructure has rails with flaps. The flaps allow exact positioning of the modules and prevent them from slipping backwards while the rails act as a guidance/track up to the final position.



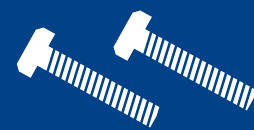
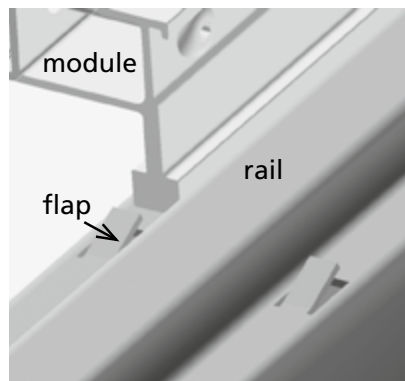
The rails guide the modules laterally.



The flaps prevent slip back and keep the modules in the correct position.



3x faster
module mounting
as typical structures



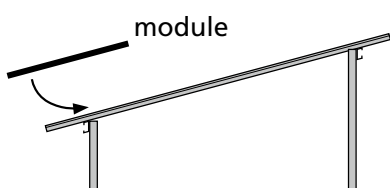
only 2 screws
per module for fixing

1st Step

Safe placing

Place the module onto the two rails in the lowest position.

Thanks to the flaps, the module is safe and can not slip down.



Your benefit

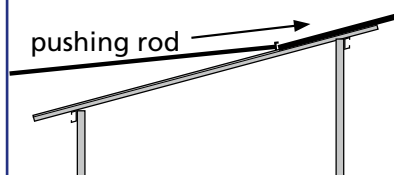
- Safe, easy and fast positioning
- No tools required

2nd Step

Easy pushing

Thanks to the pushing rod you move the module into the final position without entering the substructure.

The rails prevent slipping sideways while the flaps hold the module back in place vertically.



Your benefit

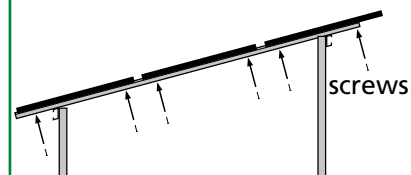
- Safe, easy and fast final positioning
- Less risk of injury and damaging modules

3rd Step

Fast fixing

Bolt the modules from below. Again, you don't have to climb onto the substructure and therefore eliminate the risk of damaging modules.

The intelligent bolting solution fixes two modules simultaneously.



Your benefit

- Safe, easy and fast fixing from below
- Reduced installation time and therefore reduced labor cost



Safe placing



Easy pushing



Fast fixing

Technical data – smartFLAP

System	pecially adapted for First Solar Series 6 modules
Module arrangement	3 modules portrait on top of each other
System inclination:	8°, 15°, 20°
Height above ground level	on request, ~700 mm (bottom edge of module table)
System height	~2380 mm
Distance between piling supports	according to static calculation
Corrosion class	C3, C4



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All data may subject to alterations and errors.

A photograph showing a large array of dark blue solar panels mounted on a metal structure in an open field. The panels are arranged in rows and are tilted at an angle. The background shows green trees and a clear sky.

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