CHIKO
Solar Mounting Solutions

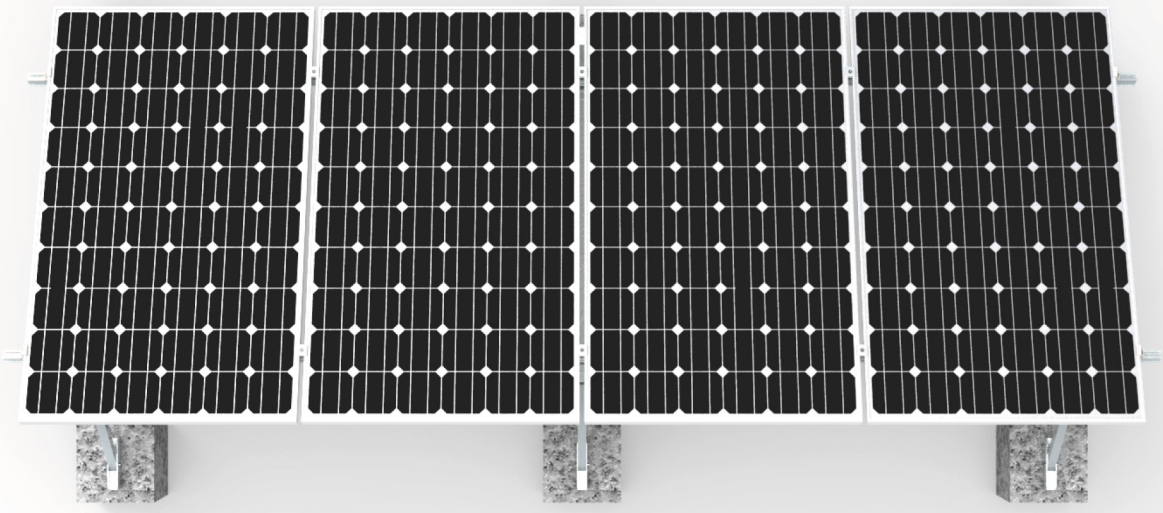
Data sheet

Adjustable Triangle

Flat concrete roof mount

Ideal for flat concrete roof solar mount

- Chiko Solar design the idea flat concrete flat roof mounting system . Every component has been evaluated and tested for simplest and fastest installation with strongest structure strength. Adjustable 15-20 and 20-25 provide great flexibility for ideal degree from Mexico to Brazil.
- It fits either 60 cell or 72 cell solar modules.



Component List

1. Adjustable triangle structure

- Dimension: 15°-20° or 20°-25° adjustable, ***or custom degree***
- Material: Aluminum 6005 T5, Stainless steel 304 fastners
- Finish: Clear or black anodized, average 12μm

2. Rail

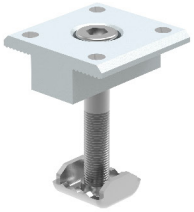
- Dimension: 3200mm,3400mm,4200mm or custom
- Material: Aluminum 6005 T5
- Finish: Clear or black anodized, average 12μm

3. Rail splice

- Dimension: 200 * 45.7 * 10mm
- Material: Aluminum 6005 T5, Stainless steel 304 fastners
- Finish: Clear or black anodized, average 12μm

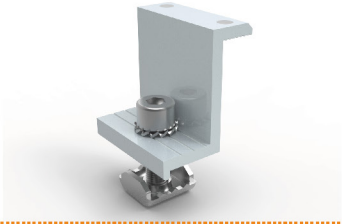
4. Integrated bonding mid clamp

- Dimension: 30/32/35/38/40/45/50/57mm
- Material: Aluminum 6005 T5, Stainless steel 304 fastners
- Finish: Clear or black anodized, average 12μm



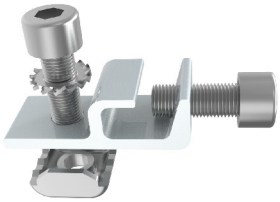
5. Integrated bonding end clamp

- Dimension: 30/32/35/38/40/45/50/57mm
- Material: Aluminum 6005 T5, Stainless steel 304 fastners
- Finish: Clear or black anodized, average 12μm



6. Grounding lug

- Dimension:
- Material: Aluminum 6005 T5, Stainless steel 304 fastners
- Finish: Clear anodized



7. Cable clip

- Dimension: $4m^2$ or $6m^2$ cable
- Material: Stainless steel 304
- Finish: A/N

Span guide Use CK-FT-7R

Max Wind speed m/s	10 tilt degree	30 tilt degree	45 tilt degree
18	2210mm	2180mm	2180mm
22	2020mm	1980mm	1980mm
30	1720mm	1680mm	1680mm
42	1415mm	1380mm	1380mm
48	1500mm	1470mm	1470mm

Span guide Use CK-FT-6R

Max Wind speed m/s	10 tilt degree	30 tilt degree	45 tilt degree
18	2570mm	2530mm	2530mm
22	2350mm	2300mm	2300mm
30	2000mm	1950mm	1950mm
42	1640mm	1600mm	1600mm
48	1750mm	1700mm	1700mm

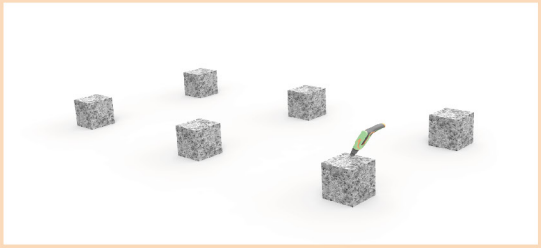
Typical system configuration 30m/s max wind speed
15-20 degree
20-25 degree

Components / layout	Triangle structure	Rail	Rail splice	Mid clamp	End clamp	Grounding lug	Cable clip
1*2	2	2100mm *2	N/A	2	4	2	8
1*3	2	3200mm *2	N/A	4	4	2	12
1*4	3	4200mm *2	N/A	6	4	2	16
1*5	4	2560mm *4	2	8	4	2	20
1*6	4	3200mm *4	2	10	4	2	24
1*7	5	3200mm *2 4200mm *2	2	12	4	2	28
1*8	6	4200mm *4	2	14	4	2	32
1*9	6	3200mm *6	4	16	4	2	36
1*10	7	4200mm *5	4	18	4	2	40

Installation

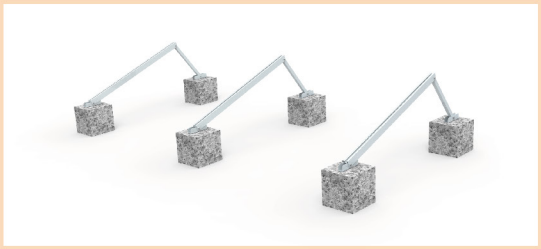
Step1: Place the prefabricated cement blocks for single Triangle structure front leg & rear leg.

Step2: Place the prefabricated cement blocks for rest of the Triangle structure according to spacing provided Chiko provided.

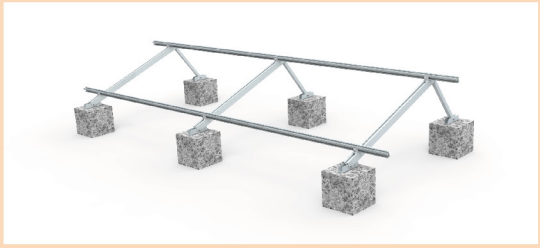


Step3: Drill 2 holes in each block for expansion bolts(M8).

Step4: Drive 2 x M8*80 expansion bolts into the blocks, tie to secure.

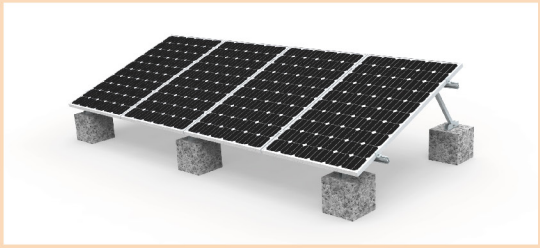


Step5: Install the triangle structures to the expansion bolts.

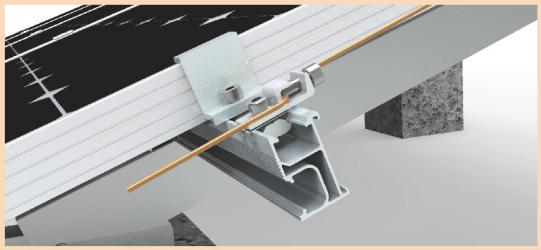


Step6: Connect rails to triangle structure using the rail to triangle connector, tie to secure.

Step7: Insert mid clamp & clamp to the rail and fix the panels.

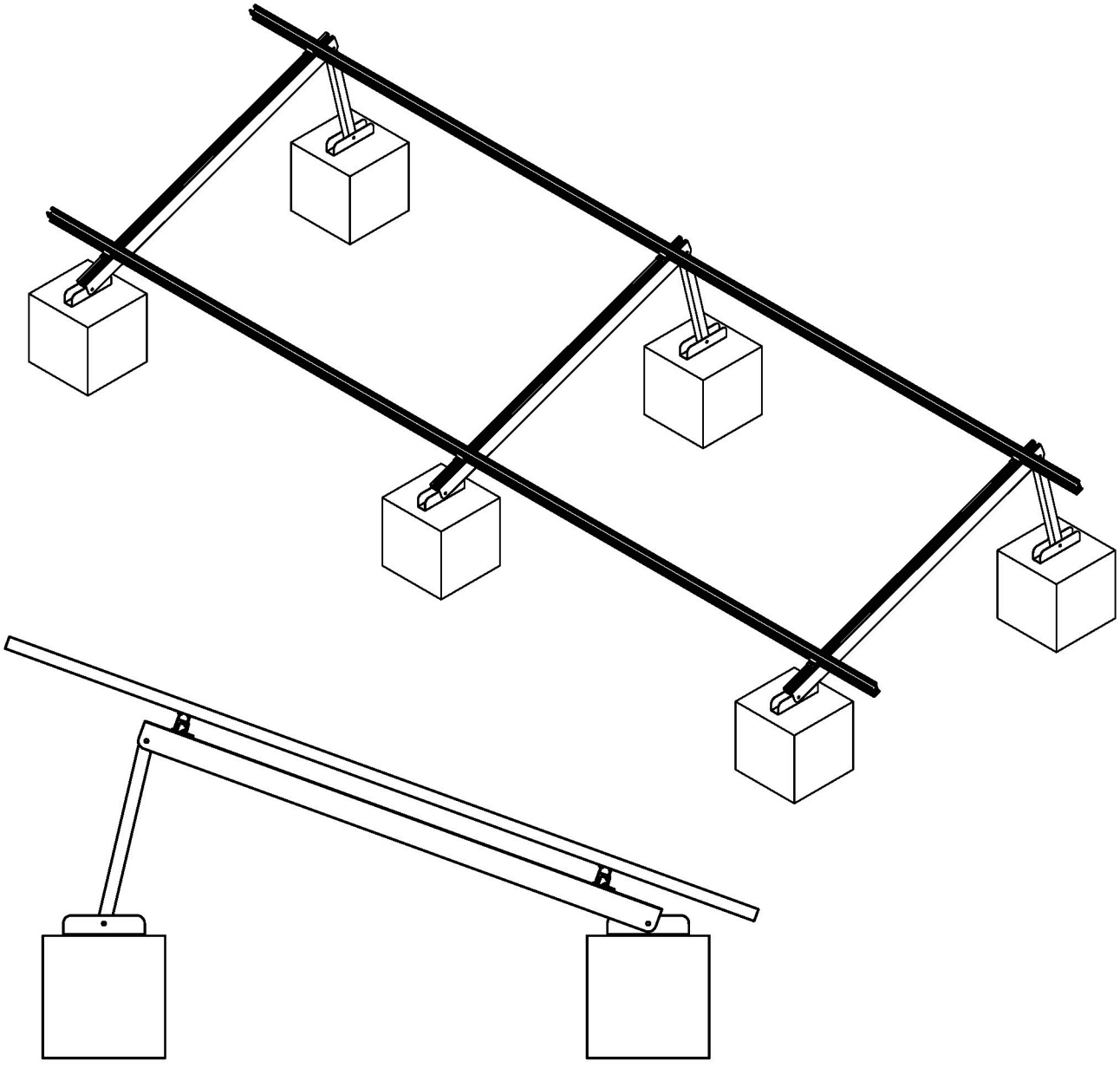


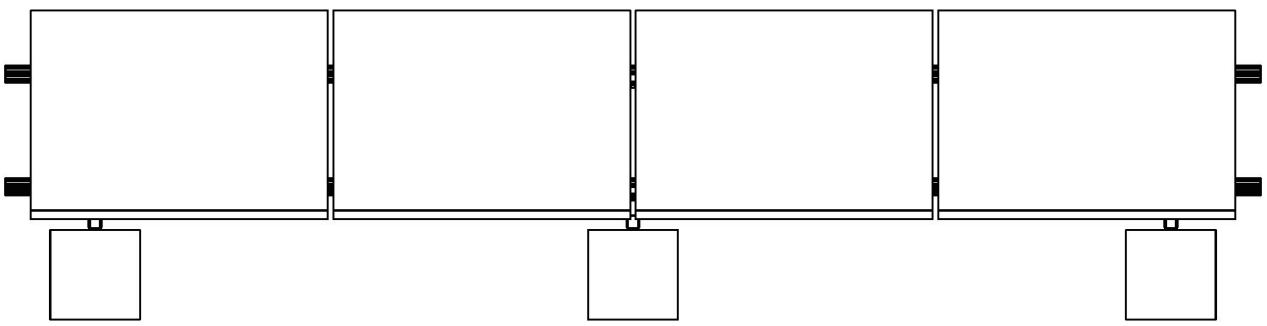
Step8: Complete all panel install.



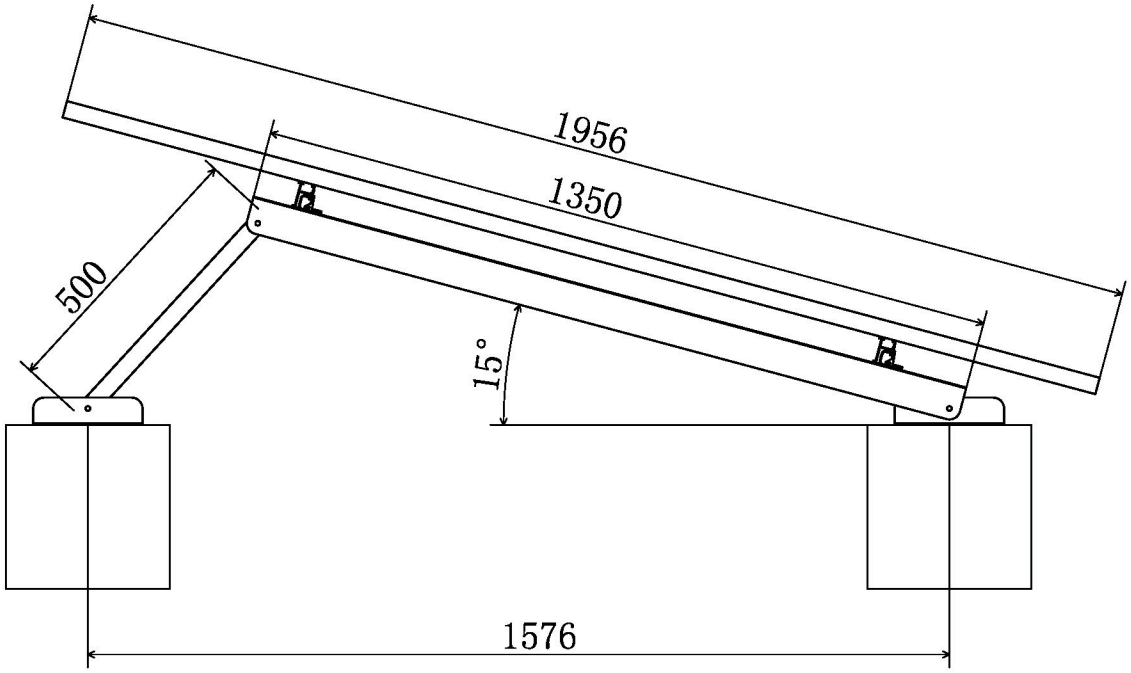
Step9: Install the grounding lug on each rail and run a grounding copper wire between each lug.

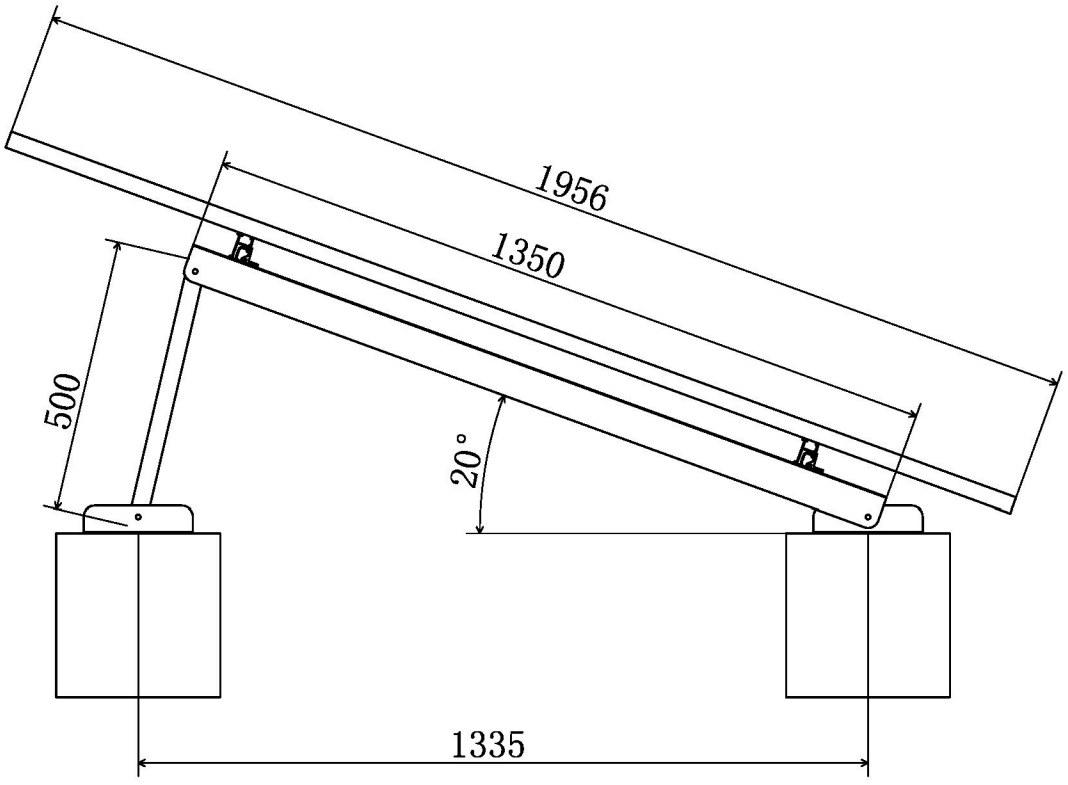
Cut Sheet



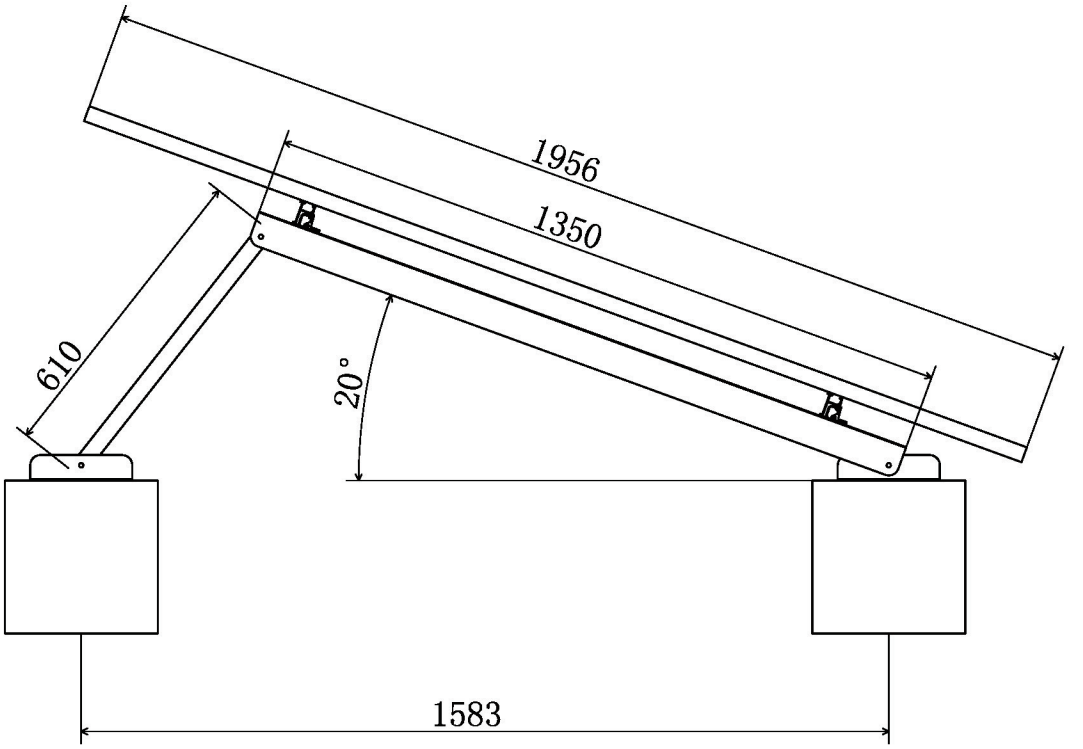


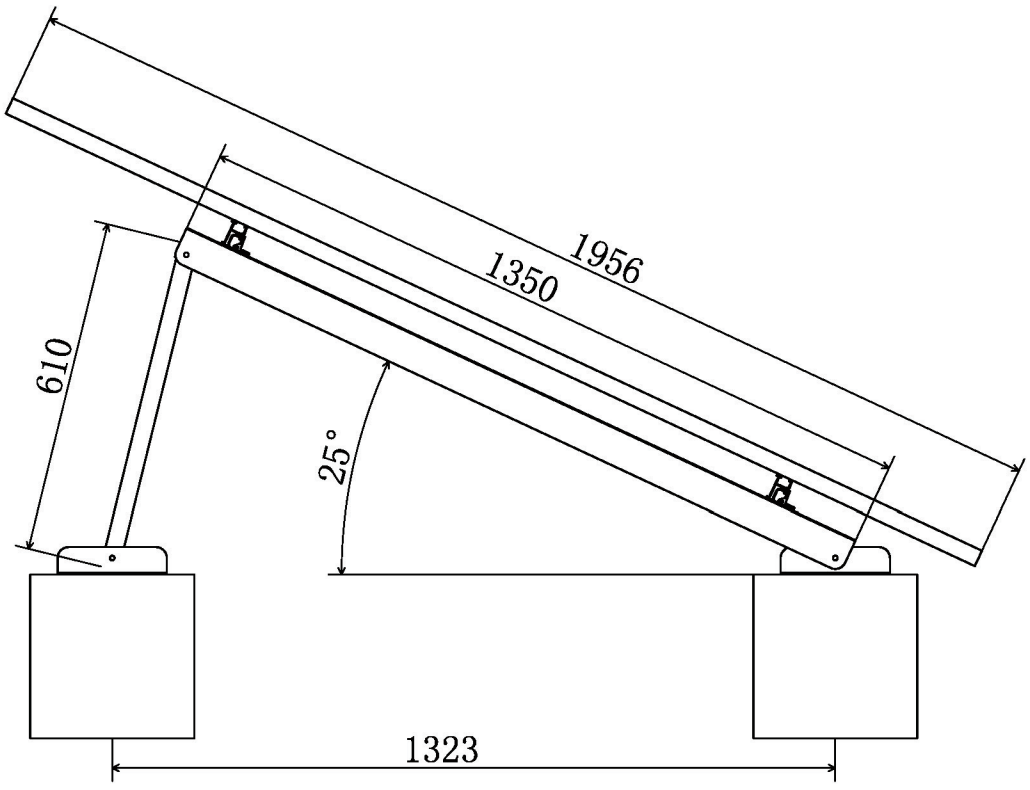
1) 72 cell panel 15°～20°adjustable



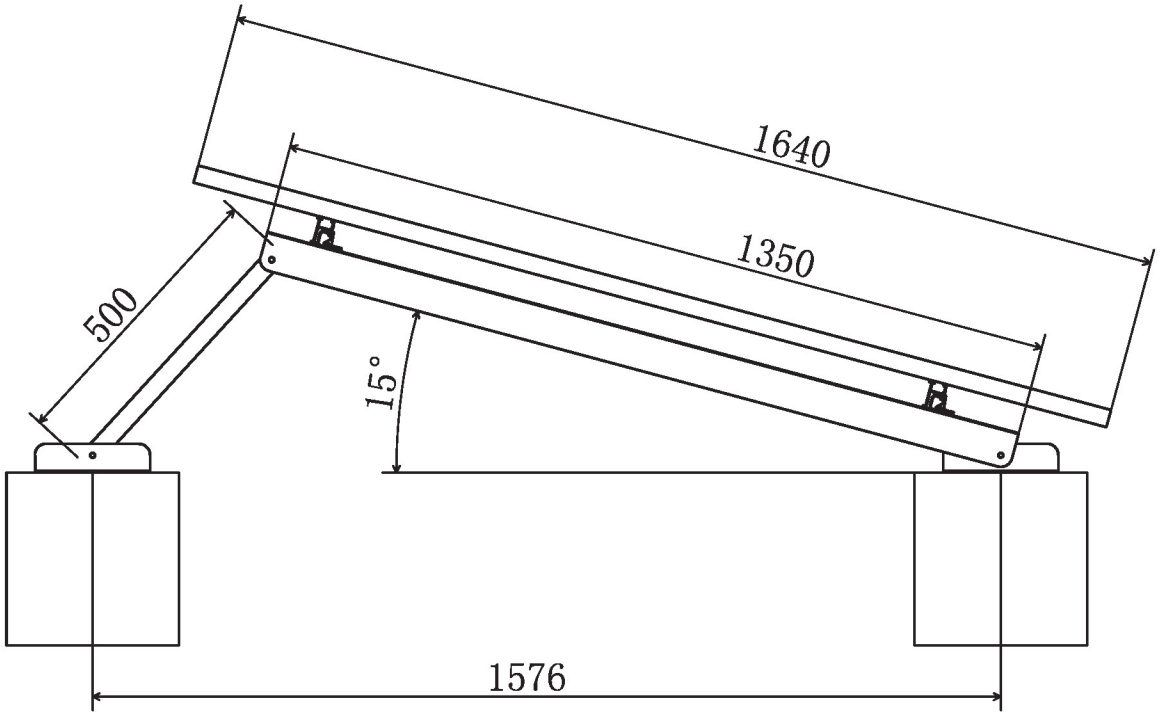


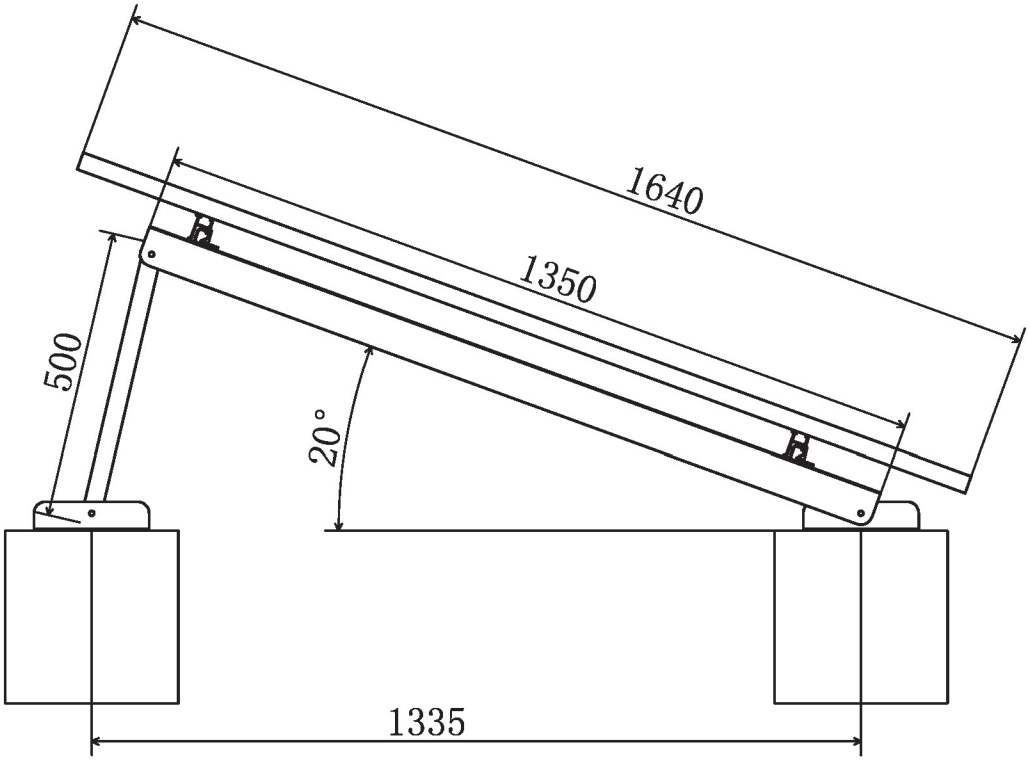
2) 72 cell panel 20°～25°adjustable





3) 60 cell panel 15°～20°adjustable





4) 60 cell panel 20°～25°adjustable