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# 1. Roof solar mounting system

## 1.1. Residential roof solar mounting system

## 1.1.1. Metal roof solar mounting

Aluminum structure with stainless steel accessories.

With variety of different tin roof brackets, Yunkai Solar **tin roof mounting system** can meet trapezoid/corrugated metal roof and standing seam roof demand with or without penetrating on the roof. Yunkai Solar has the excellent engineer team and quality management system to provide the perfect service.

/			\
Specification:			Х. Т
Wind Speed: < 60m/s	Snow load: 1.4 KN/m2	Standard: AS1170.2	2
Degree: 0°	Arrangement: Vertical or	Horizontal Warra	nty: 10 years
Installation Manual:			
1.Fix L-feet by tapping sc	rew, ensure waterproof by ru	bber plate.	1
2.Installing rail by side of	L-feet, L-feet's hole can adju	st the height of rail.	
3.Two rails supported eac	ch panel, fix panels by mid cla	amp and end clamp kit	



Number: YK-PM01

Normal metal roof mounting accessories shown as bellow:



By different section of metal roof, also we can choose other types of brackets:

Trapezoid roof bracket (Normal type):



	Part No.	YK-PM02
44	Material	Stainless steel +Tapping screw+ Socket bolt kit
	Finish	N/A
	Remark	By short Tapping screw to fix bracket



Corrugated metal roof bracket(Normal type):

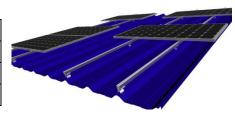
Part No.	ҮК-РМ03
Material	Stainless steel +hanger bolt+ Socket bolt kit
Finish	N/A
Remark	Drilled into purlin of metal roof

Seam Clamp (Normal type):



Part No.	YK-PM04
Material	Aluminum alloy +Socket bolt kit
Finish	N/A
Remark	Seam clamp

3 / 25



### 1.1.2. Tile roof solar mounting

**Tile roof solar mounting system** mainly used for residential roof, and use aluminum alloy rail with stainless steel roof hook to install. Yunkai Solar has the excellent engineer team and quality management system to provide the perfect service. Number: YK-PT01

1				
i.	Specification:		· · · · · · · · · · · · · · · · · · ·	
1	Wind Speed: < 60m/s	Snow load: 1.4 KN/m2	Standard: AS1170.2	h
į.	Degree: 0°	Arrangement: Vertical or Horizontal	Warranty: 10 years	
i.	Installation manual:			
l.	1.Installing roof hook by ta	apping screws;		
1	2.Installing rail by side of r	oof hook, hook's hole can adjust the hei	ght of rail.	
į.	3.Two rails supported each	n panel, fix panels by mid clamp and end	clamp kit.	
i,			j.	
× .			1	

\_\_\_\_\_

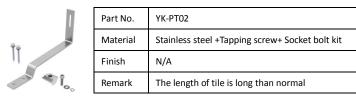
#### Normal tile roof mounting accessories shown as bellow:



By different section of tile roof, also we can choose other types of brackets:

\_ \_ \_ \_ \_ \_ \_ \_ \_

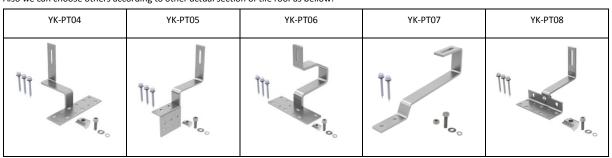
Roof hook 02 (Normal type):



Roof hook 03 (Normal type):

4	Part No.	ҮК-РТОЗ
ווֹז 💦	Material	Stainless steel +Tapping screw+Socket bolt kit
	Finish	N/A
	Remark	Used for another type rails

Also we can choose others according to other actual section of tile roof as bellow:



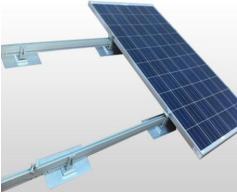


### 1.1.3. Asphalt shingle roof solar mounting

#### Use flashing to ensure waterproof

Yunkai Solar provided new type Asphalt shingle roof solar mounting system for our customers.





Number: YK-PA01

Asphalt shingle roof mounting accessories shown as bellow:

Case Shown:





Asphalt shingle roof type



### RFQ for all types of pitched roof solar mounting system

For all roof solar mounting inquiry, please let us know necessary information as bellow:

Necessary info. for us to design and quote

- •What is your PV panels dimension? \_\_\_\_mm Length x \_\_\_\_mm Width x \_\_\_\_mm Thickness
- •How many panel are you going to mount? \_\_\_\_\_Nos.
- •What kind of roof do you have?\_\_\_\_\_(Tin/metal/tile/slate/shingle roof)

•What is your planned array ? \_\_\_\_\_(1x4, 1x5, 1x6 etc.)

•How is weather there, such as wind speed and snow load? \_\_\_\_m/s anit-wind speed and \_\_\_\_KN/m2 snow load.

## 1.2. Commercial roof solar mounting system

## 1.2.1. Concrete slab flat roof solar mounting

Flat roof with concrete slab installation site

Yunkai Solar usually use concrete block as ballast or concrete foundation to fix solar mounting structure and panels.

#### Simple triangle solar mounting system (Without lowest side of PV panel height demand)

Mainly it's triangle structure, by this type, mounting brackets will be very steady, and ensure resist big wind and snow etc.

1	Specification:				
i I	Wind Speed: < 42m/s	Snow load: 1.4 KN/m2	Standard:	AS1170.2	
	Degree: 0°-70	Arrangement: Vertical	Warranty:	10 years	
į.	Installation Manual:				
i.	1.Install front bracket an	d rear post on concrete block,	and then instal	l main beam on	
Î.	the top of post, other ter	minal connect with front bracke	t.		X
I.	2.Install mounting rail up	on main beam			
	3.Install PV panels by mid	l clamp and end clamps.			j N
	~			^	<b>•</b>

#### Main parts shown as bellow: (if no concrete block, install on roof surface by expansion bolt directly.)

Mounting rail/Main beam	Front bracket/Connection	Rear Post	End clamp	Mid clamp kit
0000				

Standard: AS1170.2

Warranty: 10 years

By customers' different requirements, also we can provide other types as bellow:

#### Simple triangle solar mounting system (With lowest side of PV panel height demand)

Also it's triangle structure, just only we added front post which instead of front bracket.

Arrangement: Vertical

By this type, mounting brackets will be very steady, and ensure resist big wind and snow etc.

#### Specification:

Wind Speed: <42m/s Snow load: 1.4 KN/m2

Degree: 0°-70

Installation Manual:

- 1.Install front post and rear post on concrete block by hex bolt , and then install main
- beam on the top of posts by connection parts.
- 2.Install mounting rail upon main beam

3.Install PV panels by mid clamp and end clamps.



#### Main parts shown as bellow: (According to the distance between 2 front/rear posts, we need consider to add back support or not )

\_ \_ \_ \_ \_ \_ \_ \_

Mounting rail、Main beam	Connection	Front Post、Rear Post	End clamp kit	Mid clamp kit
0000		~ ~		

YK16-V1 Date:2016/03/13

Number: YK-FC01

Number: YK-FC02

#### C-channel structure triangle solar mounting system (No height demand, lowest side of PV panel from GL)

This type solar mounting brackets is very steady and no need to destroy rooftop.

Number: YK-FC03

When installed, use concrete blocks as ballast to fix all solar mounting structure, easy to install and save cost.

ľ.	Specification:				
	Wind Speed: < 42m/s	Snow load: 1.4 KN/m2	Standard: AS1170.2		
	Degree: 0°-70	Arrangement: Vertical	Warranty: 10 years		
	Installation Manual:				
	1.Install front bracket and	d rear post on ballast beam by	connection, and then insta	II	
	main beam on top of post,	, another end connect with front	bracket.		
	2.Install mounting rail upo	n main beam by hex bolt and squ	uare nut.		
	3.Install PV panels by mid	clamp and end clamps.		-	
	·			-1	

#### Main parts shown as bellow:

Mounting rail、Main	Front bracket	Down Beam	End clamp	Mid clamp kit
beam、Rear Post	Connection			
0000				

#### C-channel structure triangle solar mounting system (With height demand, lowest side of PV panel from GL)

For this type solar mounting structure, we need to install ballast beam with vertical at first,

and when all triangle brackets installed completely, we need to install secondary ballast beam again.

. . . . . . . . . . . . . .

Number: YK-FC04

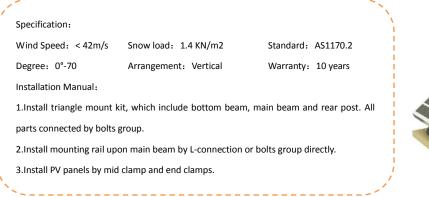
# Specification: Wind Speed: < 42m/s Snow load: 1.4 KN/m2 Standard: AS1170.2 Degree: 0°-70 Arrangement: Vertical Warranty: 10 years Installation Manual: 1.Install ballast beam first, and then install front post and rear post on beam, and then install main beam on top of posts. 2.Install mounting rail upon main beam by hex bolts and square nuts. 3.Install PV panels by mid clamp and end clamps. 4. Install secondary beam with landscape, and then use concrete block as ballast to fix all structure.

Front Post、 Rear Post	Mounting rail, Main beam	Ballast Beam	End clamp kit	Mid clamp kit
	0000			

#### Simple aluminum alloy triangle structure solar mounting system

Mainly this type solar mounting system used for flat roof which area nearby sea.

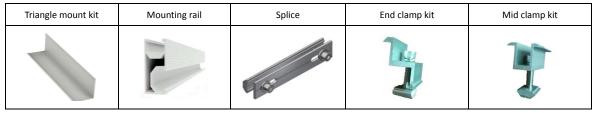
When installed, use concrete blocks as ballast to fix all solar mounting structure, no need to drill roof surface.





Number: YK-FC05

#### Main parts shown as bellow (Splice used for each2 rails connected)



#### As bellow, Yunkai Solar provide some other types of flat roof solar mounting system

Two rows with landscape solar mounting system

/	~~~~~ <	Number: YK-FC06
	Specification:	
	Wind Speed: < 42m/s Snow load: 1.4 KN/m2 Standard: AS1170.2	
	Degree: 10°-70 Arrangement: Vertical Warranty: 10 years	
	Installation Manual:	- Manana
	1.Install ballast beam, and then install front bracket and rear post on this beam, and	
	then install main beam on top of post, another end connect front bracket.	
	2.Install mounting rail upon main beam, and then install secondary ballast beam on last	
	ballast beams. 3.Install PV panels by mid clamp and end clamps.	

#### Main parts shown as bellow:

Main beam、Rear Post	Front bracket, Connection	Ballast beam	End clamp kit	Mid clamp kit
0000				

YK16-V1 Date:2016/03/13 Some area with big wind, Yunkai Solar will provide one solution as bellow:

#### One row with landscape solar mounting system- ballast type

#### By this type, make all mounting structure steady and avoid big wind speed.

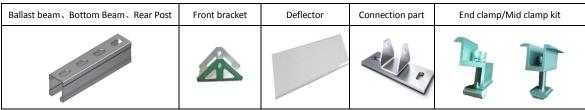
Number: YK-FC07

1	Specification				N.	
1	Specification:				1	
1	Wind Speed: < 42m/s	Snow load: 1.4 KN/m2	Standard:	AS1170.2		
1	Degree: 0°-70	Arrangement: Horizontal	Warranty:	10 years		
i.	Installation Manual:					
	1.Install bottom beam first	, and then install front bracket and	d rear post on	beam;		
ŀ	2.Install ballast beam upor	bottom beam, and then use bloc	k as ballast			
ļ.	3.And then install PV pa	nels on top of rear post and fr	ont bracket o	directly. Install		
ί,	windshield back of PV panel	els finally. (Here no need to use me	ounting rail)		÷,	
1					1.	

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Main parts shown as bellow:



## 1.2.2. Metal flat roof solar mounting

#### Steel structure metal roof solar mounting system

This type used for big power station, and the load of rooftop is very strong. Save cost and easy to install

\_\_\_\_\_

Number: YK-FM01



Mounting rail	L-FEET (Refer)	Seam clamp (Refer)	End clamp kit	Mid clamp kit
		6.3		

	nounting system with triangle structure on America area, Australia, and so on, for this		labor cost.	
Specification:			<u>ATTACK</u>	Number: YK-FM02
Wind Speed: < 4 Degree: 10°-70	2m/s Snow load: 1.4 KN/m2 Arrangement: Vertical or Horizo	Standard: AS1170.2		
Installation Manu	-			
Ū.	oracket at first, here triangle bracket cor	ntains bottom L-profile, rear		111 mm
post and main bea				
2.Install mounting	rail upon main beam, 2 rails per row		The second se	
3.Install PV panels	by mid clamp and end clamps.	/		

Triangle bracket profile	Mounting rail	Rail splice	End clamp kit	Mid clamp kit	
		-0			

# 2 Ground solar mounting system

## 2.1 Base type: Pile

Ground screw solar mounting system is one normal type solar mounting system, used for ground open field.

Ground screw 1 row with portrait solar mounting system

1								
<i>(</i>	Specification:					111	1-1-11-1-11	
	Wind Speed: < 42m/s	Snow load: 1.4 KN/m2	Standard: AS117	70.2	///	///		
	Degree: 0°-70	Arrangement: Vertical	Warranty: 10 ye	ars	-44			1
	Installation Manual:					The second secon		
	1.Install Pile first, and th	en install column upon pile. A	and then install main b	eam and				
	diagonal brace on this col	lumn.						
	2.Install mounting rail upo	on main beam			1			
	3.Install PV panels by mid	l clamp and end clamps.				1		
	`~						1	Concerne of the second s
Gro	und screw 1 row with vert	ical solar mounting system						
							1.0	1

	0 1			
Mounting rail、Main beam、	Ground screw	Single Post	End clamp kit	Mid clamp kit
Diagonal brace, Back support				
Ceeee				

Number: YK-GP01

Two rows panels with vertical, this is normal type solar mounting system for ground.

#### Ground screw 2 rows panels with vertical solar mounting system

Number: YK-GP02

Number: YK-GP03

1	-							
ŕ	Specification:					////		
	Wind Speed: < 42m/s	Snow load: 1.4 KN/m2	Standard:	AS1170.2	H	++++		
	Degree: 0°-70	Arrangement: Vertical	Warranty:	10 years		////		7
1	Installation Manual:							A
į.	1.Install Piles first, and th	nen install column upon pile. A	nd then install m	nain beam and				
i -	diagonal brace. Diagonal b	brace from rear post to main be	am.					
	2.Install mounting rail upo	on main beam						
I N	3.Install PV panels by mid	clamp and end clamps.			1	1		V

#### Main parts shown as bellow:

Mounting rail、Main beam、	Ground screw	Front、 Rear Post	End clamp kit	Mid clamp kit
Diagonal brace、Back support				
6000				

#### Ground screw 3 rows with landscape solar mounting system

According to actual factors and requirements, sometimes 3 panels with landscape type will be used.

\_\_\_\_\_

 Specification:

 Wind Speed: < 42m/s</td>
 Snow load: 1.4 KN/m2
 Standard: AS1170.2

 Degree: 0°-70
 Arrangement: Horizontal
 Warranty: 10 years

 Installation Manual:
 1.1nstall Piles first, and then install column upon pile. And then install main beam(horizontal) and back support on 2 rear columns. Here Diagonal brace will be connected from rear post to front post. 2.1nstall mounting rail upon main beam.

 3.Install PV panels by mid clamp and end clamps.

Main beam	Ground screw	Front and Rear Post	Mounting rail	Mid clamp kit、End clamp
			0000	

#### Ground screw 4 rows with landscape solar mounting system

#### Number: YK-GP04

Number: YK-GP05

This 4 panels with landscape will be used usually on open filed and big power station.

1	~			1	
í	Specification:			- Y	
	Wind Speed: < 42m/s	Snow load: 1.4 KN/m2	Standard: AS1170.2		
	Degree: 0°-70	Arrangement: Horizontal	Warranty: 10 years		
	Installation Manual:				
	1.Install Piles first, and	then install posts upon pile. Ir	nstall main beam and diagona	al 🕴	
	brace. Here Diagonal bra	ce will be connected from rear p	oost to main beam.		
	2.Install mounting rail up	on main beam, here notice there	e are 5 mounting rails.		
	3.Install PV panels by mic	l clamp and end clamps.		ļ,	
1	·			100	

#### Main parts shown as bellow:

Main beam、Mounting rail	Ground screw	Front Rear Post	Connection	Mid clamp and end clamp
0000				

#### Ground screw 4-5 rows with vertical solar mounting system

Yunkai Solar also provide aluminum alloy structure 4-5 rows of panels with landscape array.

1	Specification:		)			
	Wind Speed: < 42m/s	Snow load: 1.4 KN/m2	Standard: AS1170.2			
	Degree: 0°-70	Arrangement: Horizontal	Warranty: 10 years			
	Installation Manual:					
	1.Install Piles first, and th	en install column upon pile. A	nd then install main beam, and			
	then install secondary bea	am with landscape.		2	Ŷ	
	2.Install mounting rail upo	on secondary beam.				
	3.Install PV panels by mid	clamp and end clamps.	j.			
	`~					

Main beam、 secondary beam	Ground screw	Front Rear Post	Base bracket	Mid clamp kit、End clamp

#### E-pile solar mounting system with 2 rows

This type of solar mounting system usually used for Europe market big power station. Easy to install and save labor cost.

Number: YK-GP06

1	·		
Ĺ	Specification:		11111
	Wind Speed: <42m/s Snow load: 1.4 KN/m2 Standard: AS1170.2		
	Degree: 0°-70 Arrangement: Vertical Warranty: 10 years		
	Installation Manual:		
	1. Install Pile first, And then install main beam and diagonal brace on this column.		
	2.Install mounting rail upon main beam		
	3.Install PV panels by mid clamp and end clamps.		
	4.Here for pile, we can use " $\Sigma$ " or " $\pi$ " type	j.	
Ň	Sec	-1-	

#### Main parts shown as bellow:

Mounting rail	Pile ("Σ" "几")	Main beam、Post	Connection	Mid clamp kit、End clamp
2000				

#### Concrete pile solar mounting system

This type solar mounting system mainly use for some area which is hard to use normal pile or concrete foundation as base. Also its structure usually used for lake or low-lever ground area.

Number: YK-GP07

1				
	Specification:			
	Wind Speed: < 42m/s	Snow load: 1.4 KN/m2	Standard:	AS1170.2
	Degree: 0°-70	Arrangement: Vertical	Warranty:	10 years
	Installation Manual:			
	1.Install Concrete and Pile	e first, make concrete pile and tak	æ steel pile	in it. and then
	install column upon pile.	And then install main beam an	d diagonal	braces on this
	column. 2.Install mounting	rail upon main beam		
	3.Install PV panels by mid of	clamp and end clamps.		

\_\_\_\_\_



Mounting rail	Concrete and pile	Main beam 、Post	Diagonal brace	Mid clamp kit、End clamp	
Coort	J.			Y Y	

## 2.2 Base type: Concrete block

Most of power station use concrete block as concrete foundation to fix solar panels

### Concrete foundation 1 row of panel with vertical solar mounting system

luminum structure, mainly used for some area nearby sea. It's very easy to install, strong structure, and save labor cost.

Number: YK-GC01

Specification:					
Wind Speed: < 42m/s	Snow load: 1.4 KN/m2	Standard:	AS1170.2		
Degree: 0°-70	Arrangement: Portrait	Warranty:	10 years		
Installation Manual:			IN		
1.Install down beam, ar	nd then install main beam an	d rear post on this dow	vn beam.		
2.Install mounting rail u	pon main beam				
3.Install PV panels by m	id clamp and end clamps.			2	
n parts shown as bellow	·				
Mounting rail	Main beam	Down Beam	Rear Post	Mid clamp 、End clamp	
				11	
	of panels with portrait sola structure, easy to install and		nainly used for ground area	which nearby sea.	YK-GC02
/					
Specification:					
Wind Speed: <42m/s	Snow load: 1.4 KN/m2	Standard:	AS1170.2 📕		
Degree: 0°-70	Arrangement: Vertical	Warranty:	10 years		
Installation Manual:					All Carlo
1.Install base brackets f	irst, and then install column	upon brackets. And th	en install main		
beam and diagonal brac	ce on 2 columns.			21	
2.Install mounting rail u	pon main beam.				Land
3.Install PV panels by m	id clamp and end clamps.		/	-	
n parts shown as bellow:					

Mounting rail	Main beam	Base bracket	Front、 Rear Post、	Mid clamp、End clamp
			Diagonal brace	

Single column 2 rows of panels with portrait solar mounting system Aluminum structure, used for some area which low wind speed and nearby sea.	Number: YK-GC03
Specification:         Wind Speed: < 42m/s	stall main

#### Main parts shown as bellow:



## Normally 4 rows of panels with landscape solar mounting system

## Aluminum structu

·····, · · · · · · · · · · · · · · · ·			
luminum structure			
Specification:			
Wind Speed: < 42m/s	Snow load: 1.4 KN/m2	Standard: AS1170.2	
Degree: 10°-70°	Arrangement: Horizontal	Warranty: 10 years	
Installation Manual:			
1.Install base brackets fir	st, and then install column upon	brackets. And then install main	
beam on top of columns.	. And then install diagonal brace f	rom rear post to main beam.	
2.Install mounting rail up	oon main beam		
3.Install PV panels by mic	d clamp and end clamps.		
``			

Front、 Rear Post、 Diagonal brace	Main beam	Base bracket	Mounting rail	End clamp、 Mid clamp

#### Concrete foundation 2 rows with vertical solar mounting system

Steel structure 2 rows of panels with portrait, which is very popular for big power station.

# Specification: Wind Speed: < 42m/s Snow load: 1.4 KN/m2 Standard: AS1170.2 Degree: 10°-70 Arrangement: Vertical Warranty: 10 years Installation Manual: 1.Install posts first, and then install main beam and diagonal brace on 2 columns. 2.Install mounting rail upon main beam 3.Install PV panels by mid clamp and end clamps.

#### Main parts shown as bellow:



#### Concrete foundation 3-4 rows of panels with landscape solar mounting system

Steel structure, and use pole as front post and rear post, main beam. Just only mounting rail will use U-channel steel.

Number: YK-GC06

Number: YK-GC05

Also it's very popular in Europe market, which build big solar power station.

í	Specification:				Million
	Wind Speed: < 42m/s	Snow load: 1.4 KN/m2	Standard: AS1170.2		
	Degree: 0°-70	Arrangement: Horizontal	Warranty: 10 years		
	Installation Manual:				
	1.Install posts first, and th	nen install main beam and diag	onal brace on 2 columns. H	lere	
	main beam will be installe	d from left to right, no from fro	nt to rear.		
	2.Install mounting rail upo	on main beam			
	3.Install PV panels by mid	clamp and end clamps.			
1	·				

Mounting rail	Main beam	Front/Rear Post	Ноор	End clamp、Mid clamp kit
2000				

#### Single Post steel structure solar mounting system

According to customers' different requirements, also sometimes Yunkai Solar need to provide Single post type solar mounting system.

Number: YK-GC06

2.Install mounting rail u	Arrangement: Vertical irst, and then install main be ipon secondary beam id clamp and end clamps on	or Horizontal Wa	ndard: AS1170.2 rranty: 10 years eam.	
Mounting rail	Main beam (Welding)	Single Post	Ноор	End clamp、 Mid clamp kit

Mounting rail	Main beam (Welding)	Single Post	Ноор	End clamp、 Mid clamp kit
2000		4	4	<b>}</b>

# 3 Solar carport mounting system

## 3.1 Residential solar carport

				Num	ber: YK-CP01
Specification:					
Wind Speed: < 42m/s	Snow load: 1.4 KN/m2 Sta	andard: AS1170.2		////	1
Degree: 10°-70	Arrangement: Vertical or Hor	izontal Warranty:	10 years	////	
Installation Manual:			-		
Universal steel structure	e carport solution.			N /	
Here, Fix N-bracket kit	on concrete foundation, and fix	main beam on N-br	acket, fix		
mounting rail upon mai	in beam, fix mounting rail upon m	nain beam, and then f	fix panels	IV	
by clamps. Used for 1-2	cars' parking.		/		A. A.
×			/		
ain parts shown as bellow	::				
Mounting rail	N-bracket	Base bracket	Main beam	Mid clamp、End clamp kit	
	1				7

YK16-V1

Commercial For commercial solar carport, Yunkai Solar provide one solution which can be parked double side.	Number: YK-CP02
Use "W"-bracket as main structure to fix all solar carport structure, steady and easy to install.	
Specification: Wind Speed: < 42m/s Snow load: 1.4 KN/m2 Standard: AS1170.2 Degree: 0°-70 Arrangement: Vertical or Horizontal Warranty: 10 years Installation Manual: Universal aluminum structure carport solution. Here, Fix W-bracket kit on concrete foundation, and fix main beam on W-bracket, fix mounting rail upon main beam,, fix mounting rail upon main beam, and then fix panels by clamps.	

#### Main parts shown as bellow::

Mounting rail	W-bracket	Main beam	Base bracket	Mid clamp、End clamp kit
	$\mathbb{N}$			Y 🍃

## 3.3 Single column solar carport

For some area which just only allow to build one single column structure solar carport,

Yunkai solar provide one normal solution, easy to install, steady and save labor cost.

Specification: Wind Speed: <42m/s Snow load: 1.4 KN/m2 Standard: AS1170.2 Degree: 0°-30 Arrangement: Vertical or Horizontal Warranty: 10 years Installation Manual: Universal steel structure carport solution. Here, Fix T-bracket kit on concrete foundation, and fix main beam on T-bracket, fix mounting rail upon main beam,, fix mounting rail upon main beam, and then fix panels by clamps.

#### Main parts shown as bellow:

Mounting rail	Post Structure	Main beam	Secondary beam	Mid clamp、End clamp kit
0000				

Number: YK-CP03

### 4.1 Ground adjustable solar mounting

For ground adjustable solar mounting system, Yunkai Solar provide one type with Semi-circle structure.

Number: YK-AD01

Semi-circle structure which is easy to adjust from 0 degree to 60 degree, and 5 degrees adjusted each space.

# Specification: Wind Speed: < 42m/s Snow load: 1.4 KN/m2 Standard: AS1170.2 Degree: 0°-70 Arrangement: Vertical or Horizontal Warranty: 10 years Installation Manual: Universal adjustable type solution. Here, Semi kit: Post, Semi-circle bracket with main beam. Fix Semi-circle kit on concrete foundation, and fix mounting rail upon main beam, and then fix panels by clamps.

#### Main parts shown as bellow:

Mounting rail	Post kit	Main beam	Semi-circle	Mid clamp、End clamp kit
0000				1

#### Adjustable triangle solar mounting system

Here, Yunkai Solar also provide another type with triangle structure to show our customer.

And it's easy to adjust from 0 degree to 60 degree, just only move diagonal brace, we can do adjust easily.

Number: YK-AD02

1	-				×	
í	Spec	ification:			$\frac{1}{1}$	
	Wind	d Speed: < 42m/s	Snow load: 1.4 KN/m2	Standard: AS1170.2		
	Degr	ee: 0°-70	Arrangement: Vertical or Horizon	ntal Warranty: 10 years	÷	1
	Insta	llation Manual:				
	Unive	ersal adjustable type s	solution.			
	1.	Install Post structure	at first;			
	2.	Install main beam an	id diagonal brace		÷	
N.	3.	Install mounting rail	and back support		Ż	A.

Main parts shown as bellow:

Mounting rail	Post	Main beam	Connection	Mid clamp、End clamp kit
2000	4	2000		Y 🍹

YK16-V1 Date:2016/03/13

#### Semi-circle triangle structure adjustable solar mounting system

From Semi-circle structure to design, Yunkai Solar also provide one structure which has much more strong than other adjustable structures.

1		Number: YK-AD03
1	Specification:	
Į.	Wind Speed: < 42m/s Snow load: 1.4 KN/m2 Standard: AS1170.2	
į.	Degree: 0°-70 Arrangement: Vertical or Horizontal Warranty: 10 years	S
į.	Installation Manual:	XX
i -	Universal adjustable type solution.	
I.	Here, Semi kit: 2 Posts, Semi-circle bracket with main beam. Fix Semi-circle kit on	X
Į.	concrete foundation, and fix mounting rail upon main beam, and then fix panels by	1
X	clamps.	
	×	

Main parts shown as bellow:

Mounting rail	Post	Main beam	Semi-circle	Mid clamp、 End clamp
2000			$\cap$	

## 4.2 Roof adjustable solar mounting

Roof adjustable solar mounting system, which is popular for Australia and South America market.

/×	Number: YK-ADR01
Specification:	The second second
Wind Speed: < 42m/s Snow load: 1.4 KN/m2 Standard: AS1170.2	
Degree: 0°-70 Arrangement: Vertical Warranty: 10 years	
Installation Manual:	
Universal adjustable type metal roof solution.	
Installing front bracket and rear bracket upon metal roof by tapping screw, fix adjustable	
rear post kit into bracket, install rail on the top of post for rear row, install rail upon front	
bracket, install panels by clamps.	4
Sec	Į.

Mounting rail	Front bracket	Rear Post	Mid clamp kit	End clamp
		2 <b>!!</b>		

#### Flat roof triangle structure adjustable solar mounting system

This type solar mounting system can be adjusted by rear adjustable post.

Number: YK-ADR02

Steady, and easy to install, save your labor cost.

1							
	Specification:						
	Wind Speed: < 42m/s	Snow load: 1.4 KN/m2	Standard: AS1170.2				
	Degree: 0°-70	Arrangement: Vertical	Warranty: 10 years				
	Installation Manual:						
	Universal adjustable type flat roof solution.						
	Installing front bracket a	and rear bracket upon do	own beam by tapping screw, fix				
	adjustable rear post kit int	o bracket, install rail on the	top of post for rear row, install rail				
	upon front bracket, install panels by clamps.						

\_\_\_\_\_



#### Main parts shown as bellow:

Mounting rail	Main beam	Rear Post	Down Beam	End clamp
F	A	sli,		

#### 4.3 Led solar mounting

Led solar mounting system, which install easily, save labor cost, and steady.

 Specification:

 Wind Speed: < 42m/s</td>
 Snow load: 1.4 KN/m2
 Standard: AS1170.2

 Degree: 10°-70
 Arrangement: Vertical or Horizontal
 Warranty: 10 years

 Installation Manual:
 Universal steel structure solution.

 Installing circle brackets kit around the lamp post, and then install triangle brackets on the side of circle brackets, fix panels upon mounting rail by installing holes.
 Variant of the side of circle brackets, fix panels upon mounting rail by installing holes.

#### Main parts shown as bellow:

Main beam	Diagonal brace	Ноор	Mounting rail	Bolts group

#### Number: YK-LED01

# 5 Solar mounting accessories

## 5.1 Aluminum mounting rail & splice

Mounting rail	Part No.	YKR-01	Attached Splice	Li	st
	Material	6063-T5 / 6005-T5		Inside Connection	1
	Finish	Anodizing		Outside Connection	1
	Size	28x55mm		Bolts group	2
	Remark			Remark	

Mounting rail	Part No.	YKR-02	Attached Splice	Li	st
K	Material	6063-T5 / 6005-T5		Inside Connection	0
	Finish	Anodizing		Outside Connection	1
	Size	31x38mm		Bolts group	2
	Remark			Remark	

Mounting rail	Part No.	YKR-03	Attached Splice	Li	st
3	Material	6063-T5 / 6005-T5	5	Inside Connection	1
	Finish	Anodizing		Outside Connection	0
	Size	40x40mm		Hex Bolts group	2
	Remark			Remark	

Mounting rail	Part No.	YKR-04	Attached Splice	Li	st
	Material	6063-T5 / 6005-T5	5	InsideConnection	1
	Finish	Anodizing		OutsideConnection	0
	Size	40x40mm		Hex Bolts group	2
	Remark			Remark	

Mounting rail	Part No.	YKR-05	Attached Splice	List	
	Material	6063-T5 / 6005-T5	_	Inside Connection	0
	Finish	Anodizing		Outside Connection	0
	Size	29x40mm		Bolts group	0
	Remark			Remark	

Mounting rail	Part No.	YKR-06	Attached Splice	Li	st
	Material	6063-T5 / 6005-T5		Inside Connection	1
	Finish	Anodizing		Outside Connection	0
	Size	40x70mm		Tapping screw kit	2
	Remark			Remark	

For mounting rail, roof hook kits and other accessories, also it's accepted to order separately, and we will consider all angles for you, whatever you order whole mounting kits or just only purchase any accessories from us. We're factory, also we can accept OEM according to your requirements.

## 5.2 Mid clamp & End clamp

Mid clamp kit	Part No.	YK-MC-01	End clamp	Part No.	YK-EC-01
	Material	6063-T5 / 6005-T5		Material	6063-T5 / 6005-T5
	Finish	Anodizing		Finish	Anodizing
	Size	mm		Size	mm
	Remark			Remark	
Mid clamp kit	Part No.	YK-MC-02	End clamp	Part No.	YK-EC-02
	Material	6063-T5 / 6005-T5	-	Material	6063-T5 / 6005-T5
Mid clamp kit	Finish	Anodizing	152	Finish	Anodizing
	Size	mm		Size	mm
	Remark			Remark	
Adjustable End clamp1	Part No.	YK-EC-03	Adjustable End clamp-2	Part No.	YK-EC-04
	Material	6063-T5 / 6005-T5	an an	Material	6063-T5 / 6005-T5
	Finish	Anodizing	an a	Finish	Anodizing
	Size	mm		Size	mm
	Remark			Remark	
Thin film Mid clamp	Part No.	YK-MC-03	Thin film End clamp	Part No.	YK-EC-05
	Material	6063-T5 / 6005-T5		Material	6063-T5 / 6005-T5
5.3	Finish	Anodizing		Finish	Anodizing
	Size	mm		Size	mm
ľ	Remark			Remark	
Square Nut	Part No.	YK-IS01	Insert Nut	Part No.	YK-IS02
	Material	6063-T5 / 6005-T5		Material	6063-T5 / 6005-T5
	Finish	Anodizing	-	Finish	Anodizing
- <b>()</b>	Size	mm		Size	mm
	Remark			Remark	

## 5.3 Grounding parts & MC4

Grounding lug kit	Part No.	YK-GLK-01	Grounding clip	Part No.	YK-GLK-02
10	Material	6063-T5 / SUS304		Material	
	Finish	Anodizing & N/A	-	Finish	N/A
	Size	mm	· · · ·	Size	mm
	Remark			Remark	
Bonding jumper kit	Part No.	ҮК-ВЈК-01	MC4 Kit	Part No.	YK-MC4-01
pî	Material	6063-T5 / SUS304	1 Alexandre	Material	铜
	Finish	Anodizing & N/A		Finish	N/A
	Size	mm	chi z	Size	mm
	Remark			Remark	

## 5.4 PV Cable & Fence

PV cable	Part No.	YK-CAB-01	Fence	Part No.	YK-FEN-01
	Material	Cu		Material	Q235b
	Finish	N/A		Finish	N/A
	Size	PV1-F1*4		Size	Customers' demand
	Remark			Remark	

PV solar Cable Tray		Part No.	YK-BRI-01	Introduction
		Material	Steel	Cable Support Systems are designed and manufactured with
		Finish	Coating	a structural integrity normally only associated with steel and
		Size	200*50*2000mm	aluminium, but without their corrosion, weight and electrical
			Remark	

## 5.5 Pile

Part No.	YKP-001	YKP-002	YKP-003	YKP-004	YKP-005	YKP-006	YKP-007	YKP-008	YKP-009	
Images										
Size	Ground screw we choose according to actual soil factors or customers' requirements.									
Finish	HDG	HDG	HDG	HDG	HDG	HDG	HDG	HDG	HDG	
Price										
Remark	Normal size: 076*3*1600mm/1800mm/2000mm; Big blades or small blades; With flange or without flange.									