



信明集团 BYMEA GROUP

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Bymea LED Co., Ltd.

Bymea E Business Co., Ltd.

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ABOUT GRACE SOLAR

Xiamen Grace Solar Technology Co., Ltd. is a leading manufacturer of photovoltaic mounting system and a big supplier of PV products. High-tech and innovation always help Grace Solar keep pace with the whole industry and the world market. We devote to manufacturing and marketing the steadiest, most trustable and cost-effective solar mounting system solutions to our customers and faith in the belief of "best service" . As one of the largest PV solar products exporters in China, the industrial pioneer – Grace Solar has already installed its products in more than 100 countries and regions since its foundation.



MANAGEMENT CONCEPTS

Grace Solar brought forward the standardized and internationalized management concept at the very beginning of its establishment. It positively introduces the international management systems such as APQP, FMEA, ISO 9001:2015, CP Control Plan, MSA, SPC and applies them strictly in R&D, manufacturing, marketing, service etc.

Furthermore, Grace Solar strives to acquire international authority certification for the products and actively studies with international and domestic certification institutions such as TUV, CE, CQC, SAA, AS/NZS 1170 and Golden Sun.

SERVICE NETWORKS

Due to long term quick feedbacks for the reliable and qualified products and services, Grace Solar wins trust from system integration companies, installers and distributors worldwide. Cooperating with several strong facilitators in different areas, Grace Solar creates global service networks to offer superior and efficient services.

RESEARCH AND DEVELOPMENT

Grace Solar emphasizes specialty and innovation on its products and offers good guarantee and professional support to customers.

Grace Solar values talent people a lot. A professional research and development team that is led by qualified and experienced elite is set up in the birth of the company. The application of the most advanced equipments turns the company to an industrial leader of the structural design and system performance. Grace Solar cherishes its intellectual property and software copyrights of high-tech products including Ground Mounting System, Roof Mounting System etc.

















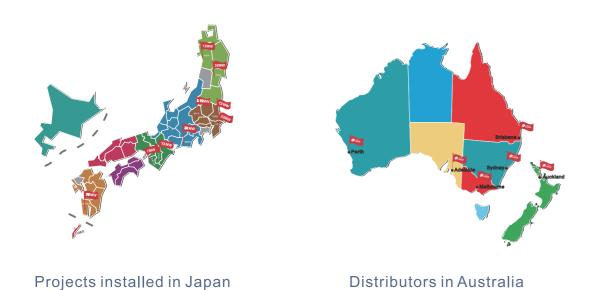


Marketing Network

This is our favorite part of the site, our showcase!



Finished about 15GW till now







PITCHED ROOF RACKING SYSTEM 07-18



FLAT ROOF RACKING SYSTEM 19-24





BALLASTED MOUNTING SYSTEM II 25-26



COMPONENTS LIST 27

27-36





PROJECT SHOW

Install Site	Capacity	Product Solution
Australia	500,000 roofs	Tile/Tin by kits
USA	150MW	Water-proof Hook
Japan	150MW	Klip Lock Hook
Korea	2.7MW	Triangle Bracket System
India	507KW	NT System
Singapore	660KW	Trapezoid Tin Roof
Australia	1MW	Adjustable Tilt System
Philippines	550KW	Klip Lock Hook
Maldives	450KW	Ballasted System

^{*} For more products detail ,please visit —— www.gracesolar.com

If you are looking for PV mounting system, you can surely trust us. The mounting system from Grace Solar enjoys **6** advantages:

Competence

We serve more than 500 clients and our mounting system has already been installed around the world especially in Japan and Australia.

10GW projects have been implemented since 2009.



Wide Applicability

Design of the mounting system is based on the international standards that can fit all kinds of solar module types in the world.



3 Manufacture

We apply the high strength aluminum alloy 6005–T5 to ensure the mounting system durable and in supreme quality. High capacity and fluent production line makes it possible to massively manufacture. Monthly capacity is up to 120MW–150MW; for project less than 5MW, the system can be shipped out within two weeks.



Best Value for Money

We offer one stop business from design, manufacture to sell; this lowers the cost of our product and makes our price competitive compared with other brands in the same quality.



Shipment

We are in a seaport city and can deliver the mounting system to almost any corner in the world upon request.



Quality Warranty

We promise 10 years warranty. Duration more than 20 years.





GS PITCHED ROOF RACKING SYSTEM

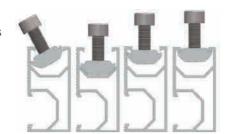
Benefits

*Pre-assembled for easy installation

D-module can be put into GD Rail from any position. This makes installation earlier and can save you time on site.

*Various Solution for the different conditions

GD Rail and its accessories can be installed with the most solar panels on the commercial and residential Roof.



*Safety and Reliability

The racking systems designed by skilled engineers can stand up to the extreme weather complying with the AS/NZS 1170 and other international structure load standards. The main support components have also been tested to guarantee its structure and load–carrying capacity.

Technical Information

Installation Site	Commercial and Residential Roof		
Tilt Angle	Flushed with the roof, up to 60deg	Material	Aluminum & Stainless steel
Building Height	up to 20m	Color	Natural & Black
Max Wind Speed	up to 60m/s	Anti-corrosive	Anodized
Snow Load	1.4KN/m2	Warranty	10 years warranty
Standards	AS/NZS 1170& DIN 1055	Duration	More than 20 years





MAIN PARTS

Rails And Splice

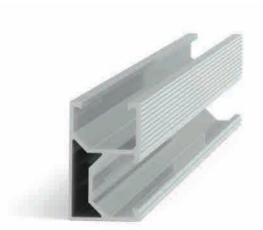
D-module can be put into GD Rail from any position via simple installation.



GS-DR-Length(Classical)

Description: GS Rail 1#

· Description : GS Ra · Spec : 55x28mm



GS-10R-Length(Economy)

·Description: GS 10# Rail ·Spec: 46x28mm



GS-DR5-Length
•Description: GS 5# Rail

·Description: GS ·Spec: 55x49mm

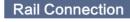


Mount with the cable



GS-CRC-Length

·Description : Rail Cap I ·Spec : 24x10mm





GS-DR-SP
·Description: Rail Splice

·Spec: 150mm



Rail Connection



GS-DR-SP-GW

Description: Rail Splice with grounding washer/ washer

·Spec: 150mm



Tin Roof (L Feet)

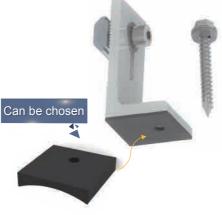
L feet can be mounted on the corrugated roof or other tin roofs. It can be used with the hanger bolts M10x200 for the enough space with the roof. The arc-rubber pad is designed specially for the corrugated roof.



GS-IK-LD05

·Description : GS L feet

·Accessories : Wood screw 6.3x80



GS-A-AR01

·Description : Arc-Rubber Pad



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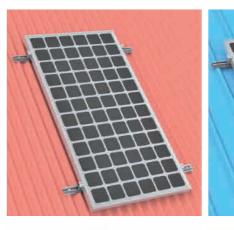
GS-IK-H01-AL

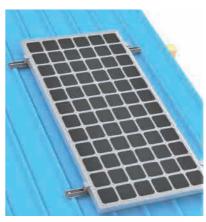
·Description : Hanger bolt hook with L feet ·Accessories : Hanger bolt M10x200

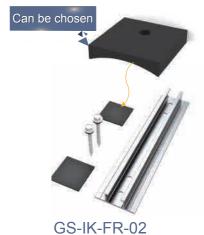
APPLICATION

Tin Roof (Flat Rail)

Flat Rail is the combination of the L feet and the rail. It also can be used on the tin roof, specially on the shingle roof.

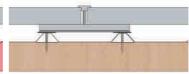






·Description: Flat Rail Hook 2#

Corrugated roof



·Accessories : Wood screw 6.3x80 ·Spec : 250mm

Trapezoid roof

Shingle Roof (Flat Rail)





GS-IK-FR

·Description: Flat Rail Hook 1# ·Accessories: Wood screw 6.3x80

·Spec: 120mm

<u>09</u>



Trapezoid Tin Roof (Flat Rail)

Without rail, UR Flat Hook is the most economic solution.











GS-IK-UR-01

·Description: UR Flat Hook

·Accessories: Self-tapping Screw

Trapezoid Tin Roof (Universal)

IDH-Rail with the patent stainless steel clamp can be used on the most of trapezoid tin roof.





GS01-IHR-Length
·Description: IDH Rail
·Spec: 38x29mm



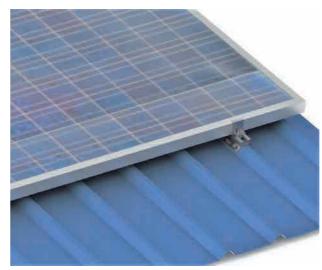
GS01-UTK-02

·Description: UTK Stainless Steel Clamp
·Accessories: Self-tapping screw 6.3x25
·Spec: 90x31mm

APPLICATION

Trapezoid Tin Roof (Customized)

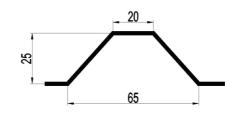
The customized trapezoid tin roof hook is made for the certain size roof. It can be mounted with the rail clamp or the L feet.





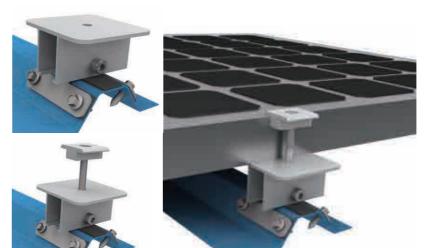
Roof Type

Roof Hook





Universal trapezoid roof hook is another solution to the trapezoid roof.





Mount without rail GS-UTK-01

Description: UTK Roof Hook
Accessories: Self-tapping screw 6.3x25

·Spec: 80mm



Standing Seam Roof Hook for Klip-lok Roof

GS-IK-S08 / S09 is a hook used by Klip-lok Roof to provide a non-penetrating roofing surface. It increases or decreases through the middle part to replace the function of two products.



GS-IK-S08

·Description : Standing Seam Roof Hook 8# ·Roof Type : Klip-Lok 700

·Accessories: screw M8x25

·Spec: 60mm

GS-IK-S09

·Description : Standing Seam Roof Hook 9# ·Roof Type : Klip-Lok 406

·Accessories: screw M8x25

·Spec: 60mm

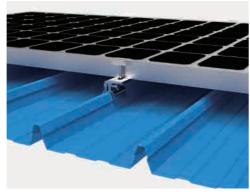
Klip-Lok Application



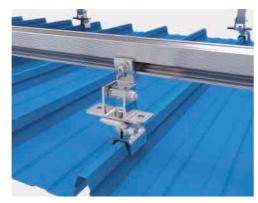
Klip-Lok hook with end clamp



Klip-Lok hook with rail



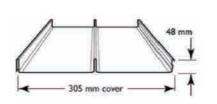
Klip-Lok hook with middle clamp



Klip-Lok with adjustable tilt system

APPLICATION

Standing Seam Roof Hook(Long line 305 and Butler-roof)



Long line 305

GS-IK-S01-A ·Description: Standing Seam Roof

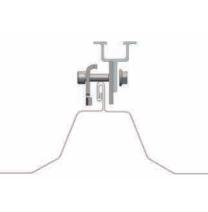
Hook 1# A Type

·Roof Type: Long line roof 305 ·Accessories : screw M8x35

·Spec: 110mm



Butler-roof

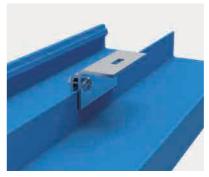


GS-IK-S04

Description: Standing Seam Roof Hook 4#

·Roof Type: Butler Roof ·Accessories : screw M8x35

·Spec: 90x31mm



Butler-roof



GS-IK-S01

·Description: Standing Seam Roof

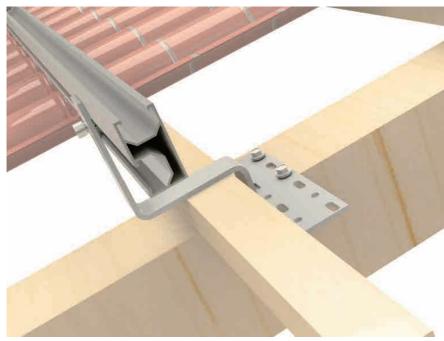
Hook 1#

·Roof Type: Butler Roof ·Accessories: screw M8x35

·Spec: 80mm



Roman Tile Roof -(GD Rail)



Feature



GS-IK-01



GS-IK-06





·Main Material: Stainless Steel 304

GS-IK-14

Item No.	Description	Dimer	nsion (b	mm) c	Package
00 11/ 04	Otaliala a Ota al II a al. 4# IXI	~	~	-	
GS-IK-01	Stainless Steel Hook 1# Kit	101	46	5	10noo/boy
GS-IK-06	Stainless Steel Hook 6# Kit	101	46	5	10pcs/box, 4 boxes/CTN
GS-IK-14	Stainless Steel Hook 14# Kit	101		5	







Adjust the Height

GS-IK-HP

GS-IK-12

Ham Na		B	Dimension (mm)			Destar
	Item No.	Description	а	b	С	Package
	GS-IK-12	Adjustable Stainless Steel Hook 12# Kit	156~176	38~50	5	10pcs/box, 4 boxes/CTN
	GS-IK-HP	Height Adjust Plate for Roof Hook	150		5	100pcs/box, 4 boxes/CTN

APPLICATION

Flat Tile Roof Hook

Feature

·Main Material: Stainless Steel 304.









GS-IK-02-A

Item No.DescriptionDimension (mm)
aPackageGS-IK-02Stainless Steel Hook 2#19030530pcs/box II, 2 boxes II/CTNGS-IK-02-AStainless Steel Hook 2# A type19030510pcs/box II, 2 boxes II/CTN

Shingle Tile Roof Hook







GS-IK-04

GS-IK-04-A

Item No.	Description	Dim Length	Dimension (mm) Length Width Thickness		Package
GS-IK-04	Stainless Steel Hook 4#	200	30	5	20pcs/box, 4 boxes/CTN
GS-IK-04-A	Stainless Steel Hook 4# A type	200	30	5	10pcs/box, 4 boxes/CTN



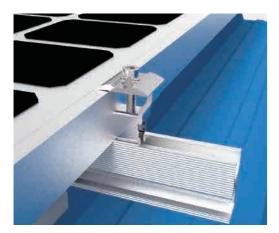
COMPONENTS

Framed Module Clamp

Feature

·Material is Anodized Al6005-T5, Fasten is A2-70

The GS-AC is an all-in-one clamp assembly that delivers middle and end clamp function by rotating the upper plate part, has a flexibly adjustable range and is suitable for 30-46mm module thickness. Bolt at the bottom of the clamp to ensures fastness.



GS-AC

·Description :

GS Adjustable Clamp Kit 30-46mm

·Package:

50pcs/box, 4 boxes/CTN









End clamp function

upper plate part rotates 90°



Middle clamp function

GS01-EC-F35/40 is a adjustable clamp assembly. Adjusting the position of the bolt, this item can be applied to 35mm or 40mm thickness module.



GS01-EC-F35/F40-F35

·Description: GS End Clamp Kit 35mm Package: 100pcs/box, 4 boxes/CTN

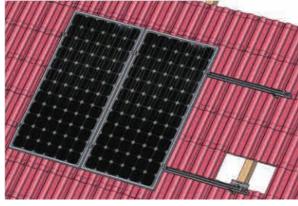


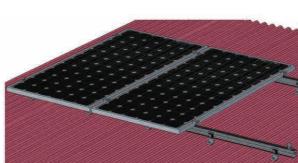
GS01-EC-F35/F40-F40

·Description: GS End Clamp Kit 40mm ·Package: 100pcs/Box, 4 boxes/CTN

PROJECT EXAMPLE

Framed Module Project





Solar Panels Size 1650x992x40mm Tile Roof 4 Panels Tin Roof 4 Panels Rail GS-DR-4200mm 2pcs 4200mm 2pcs Roof Hook GS-IK-01 (Tile) GS-IK-LD05 10 Inter Clamp GS-IC-F40 **End Clamp** GS-EC-F40 Rail Splice GS-DR-SP/GS-DR-SP-GW

Note: The above planning is applicable to the low snow loads and normal wind loads.

Frameless Module Project



Solar Panels Size 1200x600x6.8mm	GS Rail Top Layer GS-DR-2560	Bottom Layer	Thin Film Inter Clamp GS-IC-L80	Thin Film End Clamp GS-EC-L80	GD Rail Clamp GS-RC-D	Roof Hook 1# GS-IK-01
Tile Roof 8 Panels	2560 mm	2560 mm	80mm	80mm	40mm	Thickness 5mm
Array 4x2	4 pcs	4 pcs	12 pcs	8 pcs	8 pcs	6 pcs



FLAT ROOF RACKING SYSTEM

Benefits

*Pre-assembled for easy installation

D-module can be put into GD Rail from any position. So the parts Can be pre-assembled in the factory to save your install time on site.

*Various Solution to the different conditions

GD Rail and its accessories can be installed with most of solar panels on the commercial and residential roof.

Safety and Reliability

The racking systems can stand up extremely bad weather complying with the AS/NZS 1170 and other international structure load standards. The main support components have also been tested to guarantee its structure performance and load–carrying capacity.

Technical Information

Installation Site	Low profile roof or open field		
Tilt Angle	10deg ~ 60deg	Material	Aluminum & Stainless steel
Building Height	up to 20m	Color	Natural
Max Wind Speed	up to 60m/s	Anti-corrosive	Anodized
Snow Load	1.4KN/m ²	Warranty	10 years warranty
Standards	AS/NZS 1170 & DIN 1055 & Other	Duration	More than 20 years



Fixed System

COMPONENTS

Adjustable Tilt System



Legs

Feature

- ·Main Material: Anodized Al6005-T5
- ·Fasten Material: SUS A2-40
- ·Wood Screw: 2pcs M6x80
- ·Patent Telescope solution can adjust the angle
- ·Anti-Slip and Anti-out design



GS-AD-FL-LD

GS-AD-RL

Item No.	Description	Leg Length	Package
GS-AD-FL-LD	AD Front Leg		50pcs/box, 4 boxes/CTN
GS-AD-RL10/15-LD	AD Rear Leg 10/15 deg	240~360mm	30pcs/CTN
GS-AD-RL15/30-LD	AD Rear Leg 15/30 deg	340~680mm	25pcs/CTN
GS-AD-RL30/60-LD	AD Rear Leg 30/60 deg	700~1200mm	25pcs/CTN III



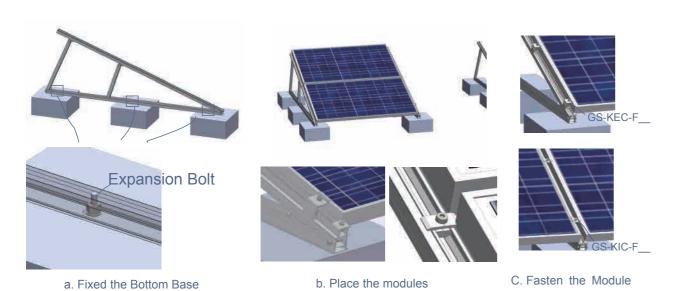
COMPONENTS

KNT Triangle Bracket



Installation Guide

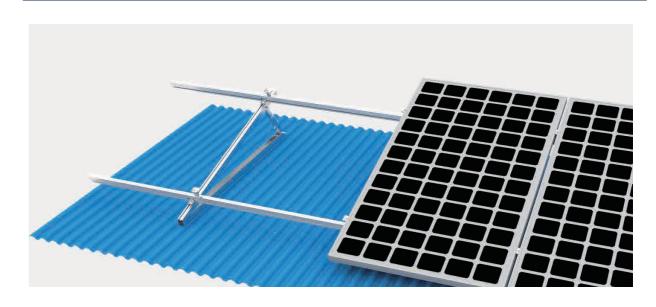
with Concrete Foundation



Item No.	Description	Placement	Angle
GS-KNT2000-10	KNT Bracket 2000-10deg	2x2, landscape	Fixed 10deg

COMPONENTS

ET Triangle Bracket



Adjustable Angle



-Fasten Material: SUS A2-70

Slip up and down

ET Triangle Bracket pre-assembly

Item No.	Description	Adjustable Angle	Package
GS-ET02-10/20	AD ET Triangle Bracket 02	10-20deg	Package on request
GS-ET02-20/30	AD ET Triangle Bracket 02	20-30deg	Package on request
GS-RC-D	GD Rail Clamp		



PROJECT EXAMPLE

Adjustable Tilt System

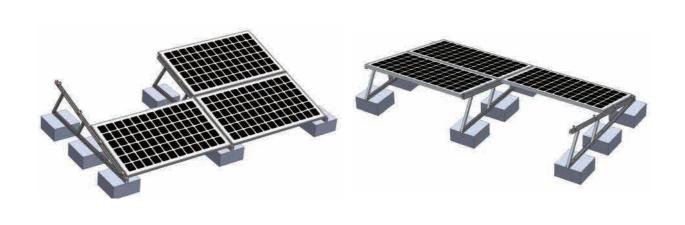


Solar Panels Size 1650x992x40mm	Rail GS-DR-	Front Leg GS-AD-FL	Rear Leg GS-AD-RL_	Inter Clamp GS-IC-F40	End Clamp GS-EC-F40	Rail Splice GS-DR-SP
Adjustable 10/15 4Panels installation	4200mm 2 pcs	4	4	6	4	2
Adjustable 15/30 4Panels installation	4200mm 2 pcs	4	4	6	4	2
Adjustable 30/60 4Panels installation	4200mm 2 pcs	4	4	6	4	2



PROJECT EXAMPLE

KNT Triangle Bracket



Solar Panels Size	Bracket	Inter Clamp	End Clamp
1650x992x40mm	GS-KNT2000-10	GS-KIC-F35/40	GS-KEC-F40
Angle:10deg Array: 2x2	3 pcs	4 pcs	8 pcs

ET Triangle Bracket



Solar Panels Size	Rail	Bracket	Inter Clamp	End Clamp
1650x992x40mm	GS-DR-4200	GS-ET02-10/20	GS-IC-F40	GS-EC-F40
Angle:10deg Array: 1x4	2 pcs	3 pcs	6 pcs	4 pcs



BALLASTED MOUNTING SYSTEM II

Benefits

*Easy Installation

The parts can be pre-assemblyed in the factory to save your installation time on site.

*Flexibility and Compatibility

Can be installed with most of solar panels under or in the different condition.

* Standard

The racking systems can stand up to the extremely bad weather complying with the AS/NZS 1170 and other international structure load standards.



The main support components have also been tested to guarantee its structure performance and load-carrying capacity.

Technical Information

Installation Site	Low profile roof or open field		
Tilt Angle	10deg, 15deg, 20deg	Material	Aluminum alloy & Stainless Stee
Building Height	up to 20m	Color	Natural
Max Wind Speed	up to 60m/s	Anti-corrosive	Anodized
Snow Load	up to1.4KN/m ²	Warranty	10 years warranty
Standards	AS/NZS 1170 & DIN 1055 & Other	Duration	More than 20 years



COMPONENTS

Installation Steps







Set 1
Install the Front Leg

Set 2 Install the Rear Leg

Set 3
Install the Middle Support Part





Set 4
Arrange the Support Part

Set 5 Install the Panel





Place the Concrete Part

Set 7
Install the Wind Plate

Project Example

Solar Panels Size	Angle	Array	Install Site	Design Wind Speed
1650x992x40mm	10deg	3x3 (9 pcs)	Flat Roof	60m/s



Rail and Splice

Feature: Material is AL6005-T5, Surface finish is ordinary anodize- clear, and black can be chosen. Fasten is A2-70.

	Item No	Name	Description	Package
	GS-DR-(length) Classical	GD Rail	Spec: 55x28mm Customized length	8pcs/bundle, 512pcs/pallet
	GS-10R-(length) Economy	GS 10# Rail	Spec: 46x28mm Customized length	8pcs/bundle, 512pcs/pallet
	GS-HR-(length)	GH Rail Have top ⊥ channel	Spec: 55x28mm Customized length Back connect	8pcs/bundle, 340pcs/pallet
3	GS-DR4-(length)	GD 4# Rail	Spec:57x33mm Customized length Clean Anodized	8pcs/bundle, 336pcs/pallet
3	GS-DR5-(length)	GD 5# Rail	Spec: 55x49mm Customized length Cable Rail	8pcs/bundle, 336pcs/pallet
	GS-CRC-(length)	Cable Rail Cap	Customized length Cap of Cable Rail	8pcs/bundle
6)	GS-DR-SP	GD Rail Splice Kit	Connect two pcs GD Rail Pre-assembly	50 kits/box 4 boxes/CTN
10 16	GS-DR-SP-GW	GD Rail Splice with Ground Washer	Connect two pcs GD Rail with ground washer Pre-assembly	50 kits/box 4 boxes/CTN
0	GS-DR4-SP	GD 4# Rail Splice Kit	Connect two pcs GD 4# Rail Pre-assembly	15 kits/box 4 boxes/CTN
7# Rail Serial				
	GS-7R-(length)	GD 7# Rail	Spec: 38x36mm Customized length	8pcs/bundle, 560pcs/pallet
9 19	GS-7R-SP	GD 7# Rail Splice Kit	Connect two pcs GD 7# Rail Pre-assembly	50 kits/box 4 boxes/CTN

COMPONENTS LIST

Accessories

Feature: There are various accessories for the Rail to manage the wires and the DC Isolator as bellows shown.

	Item No	Name	Description	Package
4	GS-A-PC01	Plastic Cable Clip	Nylon 66, black connection 2 wires with GS Rail by side	1000 kits/box 4 boxes/CTN
	GS-A-DRC-SG	GD Rail Cap	Nylon 66, Silver Gray End Cap for GD Rail	1000 kits/box 4 boxes/CTN
	GS-SSCC-03	SS Cable Clip 3#	Stainless Steel connection 4 wires with the bottom of Frame Module	2000 kits/box 4 boxes/CTN
	GS-SSCC-05	SS Cable Clip 5#	Stainless Steel connection 2 wires with the bottom of Frame Module	1000 kits/box 4 boxes/CTN
P	GS-CT-01	Cable Tie 1# 4.6x300	SUS304 with PVC Coat Tie the cable with Rail	1000 kits/box 4 boxes/CTN
	GS-DC-330-240	GS DC Isolator Box	AL5052,330x240mm With 2x D module Kits Enclosure for fixing the DC Isolator onto GS rail	20 kits/box 2 boxes/CTN











Module Clamp

Feature: Material is AL6005-T5, Surface finish is ordinary anodize- clear, and black can be chosen. Fasten is A2-70.

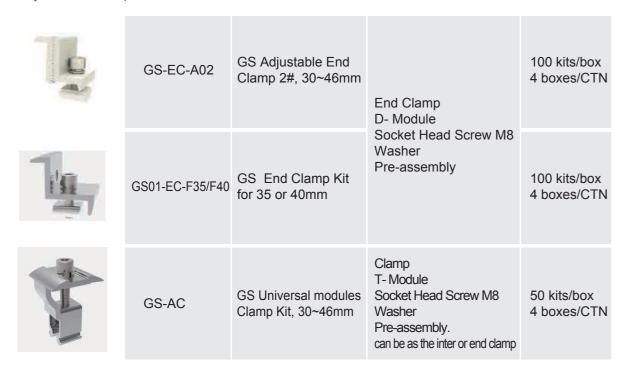
	Item No	Name	Description	Package
Mid Clamp Kit				
	GS-IC-F30	Inter Clamp Kit 30-32mm		
	GS-IC-F35	Inter Clamp Kit 35mm	Inter Clamp	
	GS-IC-F40	Inter Clamp Kit 40mm	D- Module Socket Head Screw M8	100 kits/box 4 boxes/CTN
	GS-IC-F46	Inter Clamp Kit 46mm	Pre-assembly	
	GS-IC-F50	Inter Clamp Kit 50mm		

End Clamp Kit



GS-EC-F30	End Clamp Kit 30mm		
GS-EC-F35	End Clamp Kit 35mm	End Clamp D- Module	
GS-EC-F40	End Clamp Kit 40mm	Socket Head Screw M8	100 kits/box 4 boxes/CTN
GS-EC-F46	End Clamp Kit 46mm	Washer Pre-assembly	4 5000070111
GS-EC-F50	End Clamp Kit 50mm		

Adjustable Clamp Kit



COMPONENTS LIST

Module Clamp

Feature: Material is AL6005-T5, Surface finish is ordinary anodize- clear, and black can be chosen. Fasten is A2-70. GS-IC-L80 and GS-EC-L80 is approved by Canadian Solar. GS-IC-L80-A and GS-EC-L80-A is approved by First Solar.

Item No	Name	Description	Package
GS-IC-L80	TF Inter Clamp Kit	Top and Bottom Clamp D- Module	40 kits/box 4 boxes/CTN
GS-EC-L80	TF End Clamp Kit	Socket Head Screw M8 Pre-assembly	50 kits/box 4 boxes/CTN
Modu	le Thickness: 5~10mm		

Rail Clamp



GS-RC-D	GD Rail Clamp	Clamp D- Module Socket Head Screw M8	100 kits/box 4 boxes/CTN
GS-7RC-D	7# Rail Clamp	Washer Pre-assembly.	100 kits/box 4 boxes/CTN

Framed Module Clamp Accessories



I I			
GS-A-IC	Inter Clamps		200 kits/box 4 boxes/CTN
GS-A-EC30	End Clamp 30		
GS-A-EC35	End Clamp 35	Aluminum 6005-T5 Clean Anodized	
GS-A-EC40	End Clamp 40	black can be chosen	200 kits/box 4 boxes/CTN
GS-A-EC46	End Clamp 46		4 00003/0114
GS-A-EC50	End Clamp 50		
GS-A-DM	D-Module	Aluminum 6005-T5 Clean Anodized M8 Threaded Hole	1000 kits/box 4 boxes/CTN



Tin roof Hook

Feature: Material is AL6005-T5, Surface finish is ordinary anodize- clear, and black can be chosen. Fasten is A2-70.

	Item No	Name	Description	Package
LI	GS-IK-LD05	Tin Interface kit 5#	L feet & Rubber Pad D-Module Socket Head Screw Wood Screw St6.3x80 Pre-assembly	50 kits/box 4 boxes/CTN
	GS-IK-H01-AL	Hanger Bolt Hook 1#	Hanger Bolt M10x200 Kit L fee 2# with D-Module kit Pre-assembly	20 kits/box 4 boxes/CTN
	GS-IK-H04	Hanger Bolt Hook 4#	Hanger Bolt M10x200 Kit L feet with D-Module kit Pre-assembly	20 kits/box 4 boxes/CTN
	GS-IK-H06	Hanger Bolt Hook 6#	Hanger Bolt M10x200 Kit Steel Plate 7R clamp Kit Pre-assembly Mount with 7# Rail	20 kits/box 4 boxes/CTN
	GS-IK-FR	FB Rail Hook Kit 1#	FB Rail 2 x Wood Screw St6.3x80 Slate Tile Roof & Tin Roof	40 kits/box 4 boxes/CTN
	GS-IK-FR-02	FB Rail Hook Kit 2#	FB Rail 2# 2 x Wood Screw St6.3x80 Slate Tile Roof & Tin Roof	28 kits/box 4 boxes/CTN
	GS-A-AR01	Arc-Rubber Pad	For the corrugated roof	350 kits/box 4 boxes/CTN

COMPONENTS LIST

Trapezoid Roof

Feature: Material is AL6005-T5, Surface finish is ordinary anodize- clear, and black can be chosen. Fasten is A2-70.

	Item No	Name	Description	Package
1 7777	GS-IK-A07	AL 7# Roof hook 7#	Al-Roof Hook Rubber Pad 4xSt Screw 6.3x25	30 kits/box 4 boxes/CTN
4	GS01-IHR-Length	IDH Rail	Spec: 38x29mm Customized length	8pcs/bundle, 560pcs/pallet
	GS01-UTK-02	UTK SS Clamp	Stainless Steel plate Rubber pad	100 kits/box
man it	GS-UTK-01	Universal Trapezoid Roof Hook 1#	Stainless Steel and Aluminum Parts& Socket Head Screw St Screw 6.3x2.5 Pre-assembly	30 kits/box 4 boxes/CTN

Stand Seam Roof

	Item No	Name	Description	Package
W.	GS-IK-S01	Standing Seam Roof Hook 1#	SS clamp Socket Head Screw M8 Butler Roof	15 kits/box 4 boxes/CTN
To I	GS-IK-S04	Standing Seam Roof Hook 4#	Length 110mm Pre-assembly Butler Roof	15 kits/box 4 boxes/CTN
	GS-IK-S08	Standing Seam Roof Hook 8#	Length 60mm Pre-assembly Klip-Lok 700	20 kits/box 4 boxes/CTN
	GS-IK-S09	Standing Seam Roof Hook 9#	Length 60mm Pre-assembly Klip-Lok 406	20 kits/box 4 boxes/CTN
90]	GS-IK-S02-A	Standing Seam Roof Hook 2#-A	Length 80mm Pre-assembly Round Head Roof	20 kits/box 4 boxes/CTN



Tile Roof

Feature: Material is AL6005-T5, Surface finish is ordinary anodize- clear, and black can be chosen. Fasten is A2-70.

	Item No	Name	Description	Package
	GS-IK-01	Stainless Steel Hook 1# Kit	Stainless Steel Hook D-Module Socket Head Screw M8 3 x Wood Screw St6.3x80 Roman Tile Roof	10 kits/box 4 boxes/CTN
	GS-IK-06	Stainless Steel Hook 6# Kit		10 kits/box 4 boxes/CTN
	GS-IK-12	Adjustable Stainless Steel Hook 12# Kit		10 kits/box 4 boxes/CTN
	GS-IK-14	Stainless Steel Hook 14# Kit		10 kits/box 4 boxes/CTN
	GS-IK-02	Stainless Steel Hook 2# Kit	Stainless Steel Hook D-Module Socket Head Screw 2 x Wood Screw St6.3x80 Flat Tile Roof	30 kits/box Ⅱ 2 boxes/CTN
	GS-IK-02-A	Stainless Steel Hook 2# A type Kit		10 kits/box 4 boxes/CTN
	GS-IK-04	Stainless Steel Hook 4# Kit	Stainless Steel Hook D-Module Socket Head Screw 2 x Wood Screw St6.3x80 Slate Tile Roof	20 kits/box 4 boxes/CTN
m	GS-IK-04-A	Stainless Steel Hook 4# A type		10 kits/box 4 boxes/CTN
88	GS-IK-HP	Height adjust plate	Stainless Steel plate Socket Head Screw	50 kits/box

COMPONENTS LIST

Tile Roof (7# Rail Serials)

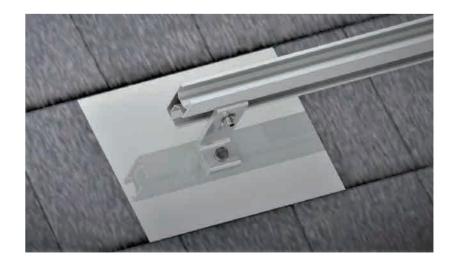
Feature: Material is AL6005-T5, Surface finish is ordinary anodize- clear, and black can be chosen. Fasten is A2-70.

	Item No	Name	Description	Package
a: Length of Arm	GS-IK-17	Stainless Steel Hook 17# Kit	Stainless Steel Hook Rail Clamp Socket Head Screw M8 3 x Wood Screw St6.3x80 Roman Tile Roof Mount with 7# Rail	10 kits/box
	GS-IK-02-C	Stainless Steel Hook 2#-C Kit	Stainless Steel Hook Rail Clamp Socket Head Screw 2 x Wood Screw St6.3x80 Flat Tile Roof Mount with 7# Rail	30 kits/box II
<u></u>	GS-IK-04-C	Stainless Steel Hook 2#-4 Kit	Stainless Steel Hook Rail Clamp Socket Head Screw 2 x Wood Screw St6.3x80 Slate Tile Roof Mount with 7# Rail	10 kits/box

Slate Tile Roof, Water Proof Solution

	Item No	Name	Description	Package
	GS-FK-01	Flashing Hook 1#	L feet Kit Wood Screw St6.3x80 Flashing Plate: 1#:305x305mm 2#: 205x305mm	25 kits/box
	GS-FK-02	Flashing Hook 2#		25 kits/box







Fasten

Feature: Material is A2-70, standard is DIN

	Item No	Name	Description	Package
	GS-F-S820	Socket Head Screw	Stainless Steel A2-70, M8x20	
	GS-F-S825	Socket Head Screw	Stainless Steel A2-70, M8x25	
	GS-F-S828	Socket Head Screw	Stainless Steel A2-70, M8x28	
	GS-F-S830	Socket Head Screw	Stainless Steel A2-70, M8x30	
0=	GS-F-S835	Socket Head Screw	Stainless Steel A2-70, M8x35	
	GS-F-S840	Socket Head Screw	Stainless Steel A2-70, M8x40	
	GS-F-S845	Socket Head Screw	Stainless Steel A2-70, M8x45	
	GS-F-S850	Socket Head Screw	Stainless Steel A2-70, M8x50	
	GS-F-S855	Socket Head Screw	Stainless Steel A2-70, M8x55	
	GS-F-S860	Socket Head Screw	Stainless Steel A2-70, M8x60	
	GS-F-S865	Socket Head Screw	Stainless Steel A2-70, M8x65	
	GS-F-AS820	Anti-Thief Screw	Stainless Steel A2-70, M8x20	
	GS-F-AS825	Anti-Thief Screw	Stainless Steel A2-70, M8x25	
- 00	GS-F-AS828	Anti-Thief Screw	Stainless Steel A2-70, M8x28	request
	GS-F-AS830	Anti-Thief Screw	Stainless Steel A2-70, M8x30	
0,20	GS-F-AS835	Anti-Thief Screw	Stainless Steel A2-70, M8x35	
	GS-F-AS840	Anti-Thief Screw	Stainless Steel A2-70, M8x40	
	GS-F-AS845	Anti-Thief Screw	Stainless Steel A2-70, M8x45	
	GS-F-AS850	Anti-Thief Screw	Stainless Steel A2-70, M8x50	
	GS-F-AS855	Anti-Thief Screw	Stainless Steel A2-70, M8x55	
	GS-F-AS860	Anti-Thief Screw	Stainless Steel A2-70, M8x60	
	GS-F-AS865	Anti-Thief Screw	Stainless Steel A2-70, M8x65	
	GS-F-AB08	Anti-Thief Screw Bit	Tool for the anti-thief screw M8	
	GS-F-N108	Hexagon Nut, M8	Stainless Steel A2-70, M8	

COMPONENTS LIST

Fasten

Feature: Material is A2-70, standard is DIN

	Item No	Name	Description	Package
	GS-F-W108	Spring Washer, M8	Stainless Steel A2-70 M8	
	GS-F-W208	Lock Washer, M8, OD13	Stainless Steel A2-70, M8, OD13	
0	GS-F-W308	Lock Washer, M8, OD18	Stainless Steel A2-70, M8, OD18	
All I	GS-F-T625	Self-tapping Screw	Stainless Steel 410 St6.3x25	Package on request
×	GS-FS-W660	Wood Screw,	Stainless Steel 410 St6.3x60 With Pad	
	GS-FS-W680	Wood Screw	Stainless Steel 410 St6.3x80 With Pad	
//	GS-F-H020	Hanger Bolt	Stainless Steel A2-70 M10x200	60 kits/box 4 boxes/CTN
12/	GS-FA-H020	Hanger Bolt Assembly	Stainless Steel Hanger Bolt& 3xFlange Nuts & Rubber Pad M10x200	50 kits/box 4 boxes/CTN

Grounding System

	Item No	Name	Description	Package
	GS-G-GC	Grounding Clip	Stainless Steel Plate	1000 kits/box 4 boxes/CTN
THE E	GS-G-GL	Grounding Lug	Stainless Steel Plate Aluminum Lay-in Lug Fastens Pre-assembly	200 kits/box 2 boxes/ CTN II
26 29	GS-G-BJ-A	Bonding Jumper	Braider copper wire Stainless Steel Plate Socket Head Screw Pre-assembly	100 kits/box 2 boxes/CTN II



ROOF MOUNTING PROJECT IMAGE



Roman Tile Roof System



Triangle System (NT)

ROOF MOUNTING PROJECT IMAGE



Tin Roof System(L feet)



Triangle System



ROOF MOUNTING PROJECT IMAGE



Standing Seam Tin Roof System



Trapezoid Tin Roof System (Custom-made)

ROOF MOUNTING PROJECT IMAGE



Adjustable Tile System



Ballasted System



ROOF MOUNTING PROJECT IMAGE



Flat Rail System(Without Rail)



Shingle Tile Roof System

ROOF MOUNTING PROJECT IMAGE



Water-proof System



Triangle System (NT)



APPROVAL AND CERTIFICATE



SGS Aluminum Alloy Quality Report



UL



TUV Certificate



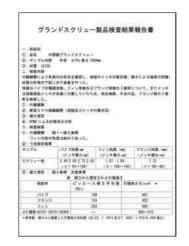
SGS Salt Spray Test Report



ISO 9001:2015



UK MCS Certificate



Screw Product Inspection Result Report



Quality Warranty



Australia AS1170.2 Certificate

GROUND MOUNTING SYSTEM

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AL GROUND MOUNTING SYSTEM IV



DOUBLE-POST MOUNTING SYSTEM



PILE GROUND MOUNTING SYSTEM



UB GROUND MOUNTING SYSTEM



AL FARM PV MOUNTING SYSTEM



CARPORT PV MOUNTING SYSTEM



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FENCE & GROUND SCREW





OEM & ODM

Cräsol格瑞士

> Factory Area

60,000m²

➤ Staff Number

500

➤ Grace Solar

•Capacity : 2GW/Year •Product Line : 15 Lines

•Machines : About 50 Sets











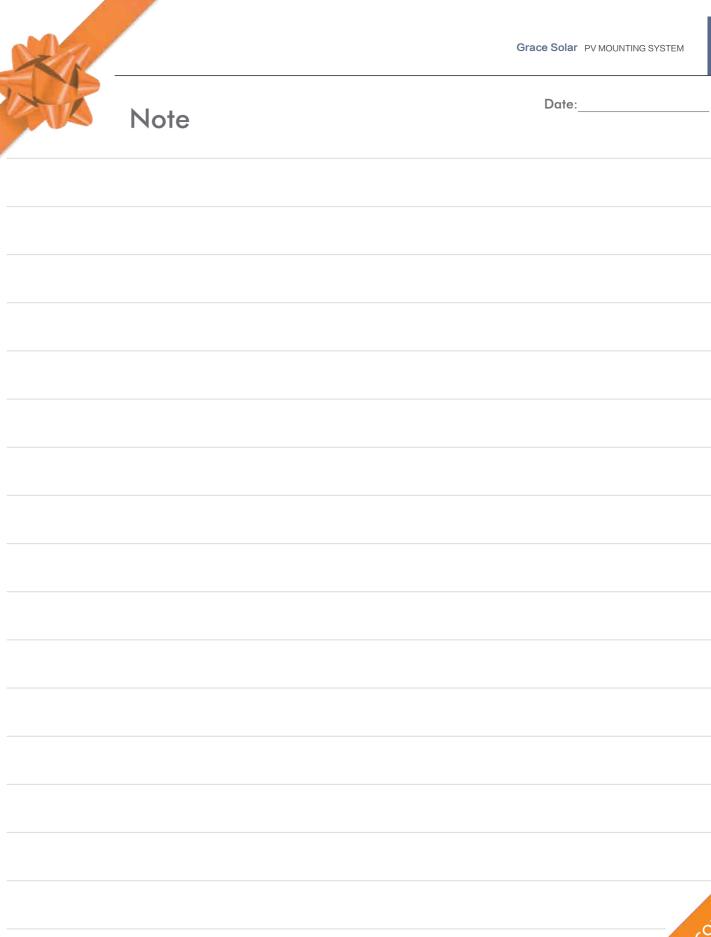


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