

SOLAR ROOF MOUNTING SYSTEM INSTALLATION MANUAL

MODEL NAME: VS-KLIPLOK



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1. Determine the wind region of your installation site

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Model Name:VS-KLIPLOK

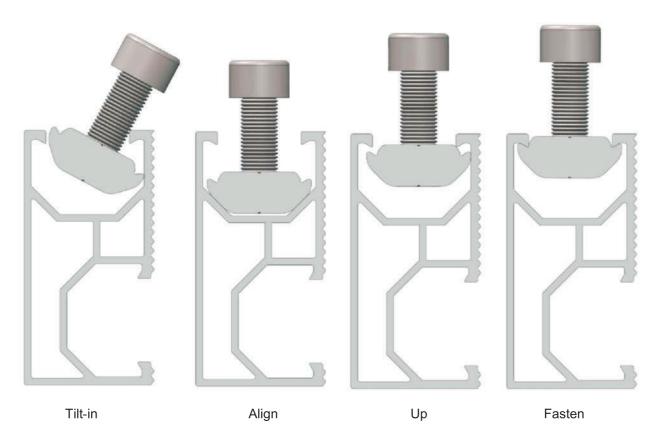
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Thank you for choosing the Voslar roof mounting system. Made from custom-built aluminum extrusions and components, Voslar's innovated design and improved frame strength greatly simplify solar panel installation. The easy installation four steps make the D-Modules can be put into the D Rail on any position quickly. So, the D-Modules is pre-assembly with the clamp to save your install time.



Easy installation four steps

Voslar's versatile design makes it suitable for a wide variety of building types and zones including residential, commercial and remote environments.

Voslar is backed by a 10-year warranty (Fire Rated:C).

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1. Handling and Installing Voslar

It is critically important that safety practices are observed when installing

- ※ Do not throw or roughly handle any Voslar components.
- * Do not bring Voslar system into contact with sharp or heavy objects.
- * Do not modify Voslar components in any way. The exchange of bolts, drilling of holes, bending or any other physical changes not described in

standard installation procedure will void the warranty.

* It is the installer's responsibility to verify the integrity of the structure to which Voslar components is fixed. Roofs or structures with rotten/rusted bearers, undersized bearers, excessively spaced bearers, or any other unsuitable substructure cannot be used with Voslar components, and installation on such structures will void the warranty, and could result in death or serious injury.

2. Wind and Climate Design

Determining the wind pressures applies to your Voslar system install site, taking into account roof shape and geographic location. Sufficient guidance is given in this document, but you may wish to procure a copy of these standards.

- ** REMEMBER average wind speeds are higher for structures mounted closer to the roof perimeter zone (edge). Refer to 'Fixing within Roof Installation Zone' for more information)
- * Make sure your installation complies with local and national building codes. Take into account relevant design parameters (wind speed, exposure and topographic factor) when determining the loading for the installation.
- * If alternative fasteners are used to fix the framing to the roof (assuming supplied fasteners are unsuitable for any reason), all screw fasteners must be of equal or greater strength to those supplied with your Voslar system order.

Caution >>>

Installation of this product is to be performed only by professionally trained installers. Any attempt by an unqualified person to install this product could result in death or serious injury.

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1.Applications

- Commercial and residential buildings
- Marine applications and remote areas

2.Features

- **%** 6005-T5 Aluminum extrusion
- * Innovated designed of the D-Modules, which can be pre-assembly with the clamp, make the installation easy and quick.
- * Suitable for difference conditions and the most solar panels at present market.
- X Significantly higher strength-to-weight ratio than other framing products, providing improved efficiency due to greater frame spans, inherentcorrosion resistance resulting in low ongoing maintenance and an extended product life.
- * Anodized finish

3.Material

Material	Tensile strength			
	Ultimate	Yield		
6005-T5 Aluminum	260MPa	2401455		
Extruded	20010178	240Mpa		
Stainless Steel 304	635MPa	235MPa		
Stainless Steel A2-70	700MPa	450Mpa		

4.Installation condition

Roof slope	0° to 60°
Building height	Up to 20m
Mounting structure	Timber
Roof types	Flat or pitched steel and tile
System angle	Flushed with the roof

Note: if the condition is over the table list, please contact us to confirm.

Caution >>>

Refer to the section "Designing Your System" before attempting installation. Failure to correctly establish the requirement of the proposed installation site is dangerous and will void the framing warranty

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>>> TOOLS FOR INSTALLATION

The following tools are required for the installation:

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*	6 mm Allen key or hexagonal driver bit.	
	If using a 6mm driver bit, make sure the cordless	CH.
	power tool used for the driving has a hand-tight	
	clutch setting a fine (soft) impact drive to prevent	
	damage to the fragile glass panels and threads on	
	the Structure.	
*	Cordless drill;	
	Drill or impact driver for driving roof material fixings	
*	Angle grinder;	
	For terracotta tile roof installation, and angle grinder	1
	fitted with a continuous edge diamond tipped	
	tile0cutting blade; gloves, hearing protection, a face	
	protection mask, and a suitably rated breathing	
	protection mask for all people in proximity of	
	grinding	
*	Gloves;	.4644.
	Protect the hazard of the sharp corners.	
*	Cord or color pen;	
	Mark the installation position;	
*	Spirit level	
		2 2 2 2 2 2 2 2 2 10 11 12 11 11 12 12 12 13 13 20 21 22 22 22 22 22 22 22 22 22 22 22 22
*	Rule	
		C ZE
*	If necessary, timber to shim the roof hooks	

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VØSLAR >>>> COMPONENTS DESCRIPTION

VS-F	Pail				
	hold each panel row				
	· ·	izad		28	
	length can be custom				5
*	6005-T5 extruded alu	minum			
	Standard	Rail Length			4
808~	826mm wide panels	990~1020mm wide panels			16
25	60mm (3 panels)				
34	105mm (4 panels)	4200mm (4 panels)		_ /	
	length of VS-Rail can be cus installation direction of panels	stomized.(1.05m~15.90m) can be customized.(horizontal or vertical)		<u> </u>	
* *	quantity or width of the	oolts,2pcs M8 spring washers,	•)	()	
	Clamp Kit for Frame				
	Fit between two pane			Type	Bolt
	Fastened with a 6mm			Inter clamp kit 35 Inter clamp kit 40	M8*45 M8*50
	·	ly for the usual panels with	-	Inter clamp kit 46	M8*55
	thickness 30, 35, 40, 4 Include 1pc M8 bolt,1	46, 50, 57mm pc M8 spring washer,1pc nut		Inter clamp kit 50	M8*60
End	Clamp Kit for Frame	d Modules			
*	Hold the edge of each	n end panels			
*	Fastened with a 6mm	Allen key			
*	Standard pre-assemb	ly for the usual panels with	(3)		
	thickness 30, 35, 40,	46, 50, 57mm			
*	Include 1pc M8*25 bolt	,1pc M8 spring washer,1pc nut	-0		
Grou	unding Lug				
	Fix the wire				
* I	Material:Cu		- 1		
	•	lt,1pc M8 spring washer, sher,1pc nut,1pcM6*15 bolt	0		
Grou	unding Clip				
	Electric Conduction		0		
* 1	Material:Stainless stee	el	10/ 0		
Rub	ber Pad				
* \	Nearing Pads				
* (Change in time				
*	Roof Hook (L leg) Fix on the kliplok Include 1pc M8*25 1pc M8,OD18 lock	bolt,1pc M8 spring washer, k washer,1pc nut	-		



VØSLAR >>>> COMPONENTS DESCRIPTION

Adjustable Tilt Front Leg ** Fix on the kliplok ** Include 1pc M8*25 bolt,1pc M8 spring washer, 2pcs M8,0D18 lock washers,1pc nut, 1pc M8*55 bolt,1pc flange nut with M8 locking teeth	The state of the s
Adjustable Tilt Rear Leg ** Fix on the kliplok ** Include 1pc M8*25 bolt,1pc M8 spring washer, 2pcs M8,0D18 lock washers,1pc nut, 1pc M8*55 bolt,4pcs flange nuts with M8 locking teeth,1pc M8*20 bolt,1pc M8*15 bolt	F
Triangle Frame ** Fix on the kliplok ** Include 1pc M8*50 bolt,1pc M8*20 bolt, 1pc M8*45 bolt,2pcs M8*16 bolts,3pcs M8, OD18 lock washers,5pcs flange nuts with M8 locking teeth	
Rail Clamp * Hold rails * Include 1pc M8*25 bolt,1pc M8 Spring washer, 1pc nut	a All
Bolts & Nuts ### Fix tin roof hook to kliplok ### Include 1pc M8*25 bolt,1pc M8 spring washer, 1pc M8,0D18 lock washer,1pc nut	

Variety of klip-lok	
 Klip-lok 700 Fix on the roof Include 2pcs M8*16 bolts,2pcs M8 spring washers Include 2pcs M8*20 bolts,2pcs M8 spring washers, 2pcs M8,OD18 lock washers 	
 Klip-lok 406 Fix on the roof Include 2pcs M8*16 bolts,2pcs M8 spring washers Include 1pc M8*20 bolt,1pc M8 spring washer, 1pc M8,OD18 lock washer 	
Stainless Steel Kliplok Fix on the roof Include 2pcs M8*25 bolts,2pcs flange nuts	

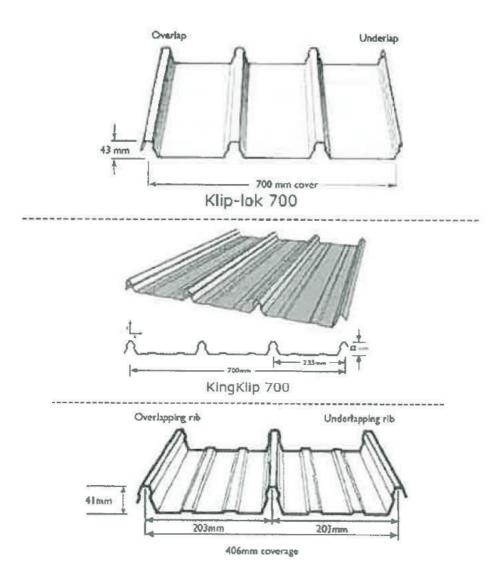
Variety of Screws	
Wood Screw ※ With pad	
Socket Head Screw	



The best way to identify the type of concealed roof installed is to check the label normally located underneath the roofing sheet.

Otherwise, you can contact the builder or check the building plan to find out the exact type of the roofing sheet.

WARNING! THE USE OF THE KLIP-LOK TYPE BRACKET IS NOT ACCREDITED ON ANY OTHER ROOF TYPES THAN THE FOUR LISTED BELOW.



Klip-Lok 406

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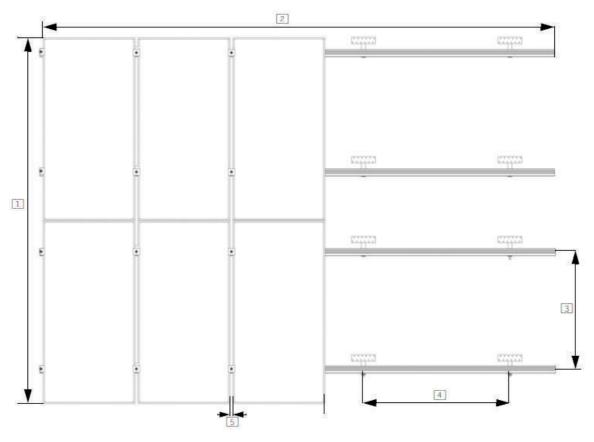
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>>> DESIGNING THE MODULE FIELD

Below, the distances between roof connections for a portrait installation are specified. Clamp-on roof hooks need to be installed in specific distances, depending on the distance of rafters and the stoical conditions.



- 1 Height of the module field: module height x number of modules vertically
- 2 Width of the module field: number of modules horizontally x (width of the module + 18 mm)+32 mm
- 3 Distance between roof connections vertically (according to the clamping points pre-defined by the module producer): Quarter-points of the modules, about 1/2 of module height.
- 4 Distance between roof connections horizontally: Depending on the distance between rafters and on the static requirements (please see the Chapter 8 on page 11).
- 5 Distance between modules: 17 mm

When positioning the modules, please take into consideration

- X That the values above are
- * That dimensions of tiles or other roof covering and the position of the rafters define the precise actual horizontal distance between roof connections
- * That the distance between roof laths defines the precise actual vertical distance between roof connections.

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1. Determine the wind region of your installation site

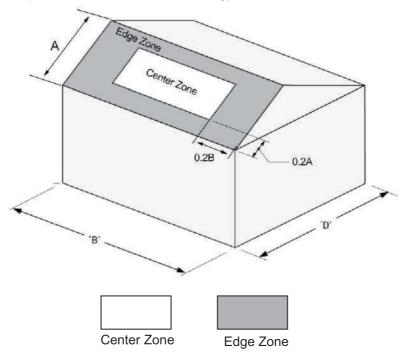
Region A	A≤ 45msec
Region B	45msec < B≤ 57msec
Region C	57msec < C≤ 66msec
Region D	66msec < D≤ 80msec

2. Determine the height of your installation site

This document provides sufficient information for Voslar system installation height less than 20 meters. If your installation site is more than 20 meters in height, please contact Voslar to obtain engineering data to support your installation.

3.Determine Roof Installation Roof Areas

Voslar system can be installed anywhere on a roof but fixing centers are required to be reduced at ridges and edges. The diagram below shows the area of higher wind loadings within 0.2A and 0.2Bof a roof edge ridge (where A and B are the planned dimension of the building).



The following table will help you determine the maximum rail support spacing for your project. Also note that if the roof slope is less than 10 degree the reduction on spacing does not apply.

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4. Determine the maximum Klip-Lok interface spacing

a) Direct mounting or using Tin roof hook (L-leg) and rails





b) Using Adjustable Tilt System



SUMMARY1-T.C.4 for Region A,B,C,D

Roof Interface Bracket Spacing(mm) Across for PV - Direct mounting or using tin roof hook (L-leg) and rails

For Up To 1700mm Long Panel(2Rails)								
Max.Support Spacing(mm)								
Installation RegionA RegionB RegionC RegionD								ionD
Height(m)	Center	Edge	Center	Edge	Center	Edge	Center	Edge
5Meters	1600	1220	1150	845	720	530	450	325
10Meters	1350	1010	950	700	650	475	400	290
15Meters	1250	950	880	660	600	445	370	1
20Meters	1150	1	820	1	560	1	340	1

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For Up To 1700mm Long Panel(3Rails)								
Max.Support Spacing(mm)								
Installation RegionA RegionB RegionC RegionD								onD
Height(m)	Center	Edge	Center	Edge	Center	Edge	Center	Edge
5Meters	2500	1220	2050	845	1620	530	1350	325
10Meters	2250	1010	1850	700	1550	475	1300	290
15Meters	2150	950	1780	660	1500	445	1270	1
20Meters	2050	1	1720	1	1460	1	1240	1

For Up To 2100mm Long Panel(2Rails)								
Max.Support Spacing(mm)								
Installation RegionA RegionB RegionC RegionD								ionD
Height(m)	Center	Edge	Center	Edge	Center	Edge	Center	Edge
5Meters	1350	975	940	675	600	420	350	260
10Meters	1100	810	780	560	530	380	330	235
15Meters	1000	750	710	520	480	350	300	1
20Meters	900	1	650	1	440	1	270	1

For Up To 2100mm Long Panel(3Rails)									
	Max.Support Spacing(mm)								
Installation	RegionA RegionB RegionC Reg						ionD		
Height(m)	Center	Edge	Center	Edge	Center	Edge	Center	Edge	
5Meters	2250	975	1840	675	1500	420	1250	260	
10Meters	2000	810	1680	560	1430	380	1230	235	
15Meters	1900	750	1610	520	1380	350	1200	1	
20Meters	1800	1	1550	1	1340	1	1170	1	



For Up To 2200mm Long Panel(2Rails)										
	Max.Support Spacing(mm)									
Installation	lation RegionA RegionB RegionC RegionD						ionD			
Height(m)	Center	Edge	Center	Edge	Center	Edge	Center	Edge		
5Meters	1285	915	885	630	570	390	325	245		
10Meters	1035	760	735	525	500	355	310	220		
15Meters	935	700	665	485	450	325	280	1		
20Meters	835	1	605	1	410	1	250	1		

For Up To 2200mm Long Panel(3Rails)										
	Max.Support Spacing(mm)									
Installation	allation RegionA RegionB RegionC RegionD							ionD		
Height(m)	Center	Edge	Center	Edge	Center	Edge	Center	Edge		
5Meters	2185	915	1785	630	1470	390	1225	245		
10Meters	1935	760	1635	525	1400	356.25	1210	220		
15Meters	1835	700	1565	485	1350	326.25	1180	1		
20Meters	1735	1	1505	1	1310	1	1150	1		

[•] Min. steel batten/ purlin thickness=0.6mm.

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SUMMARY2- T.C.3 for Regions A, B, C

Roof Interface Bracket Spacing (mm) Across for PV – Triangle frame and Adjustable Tilting System Two Klip-Loks per frame

Design Data

KlipLok	Capacity kN
Lysaght406	1.37
Lysaght700	1.17
Fielders700	0.50



WIND REGION	A							
Building Height	5r	n	10m		15m		20m	
Angle	≤15	≤30	≤15	≤30	≤15	≤30	≤15	≤30
KlipLok 406	1490	1430	1470	1430	1450	1230	1400	1140
KlipLok 700	1420	1340	1430	1280	1280	1050	1190	980
KingKlip 700	700	570	610	540	540	450	510	410
Force(KN/m)	0.70	0.87	0.81	0.91	0.91	1.11	0.98	1.19

WIND REGION	В							
Building Height	5	im	10m		15m		20m	
Angle	≤15	≤30	≤15	≤30	≤15	≤30	≤15	≤30
KlipLok 406	1520	1160	1310	1000	1190	900	1100	840
KlipLok 700	1300	990	1120	850	1010	770	940	710
KingKlip 700	550	420	480	360	430	320	400	300
Force(KN/m)	0.90	1.18	1.04	1.37	1.15	1.52	1.24	1.63

WIND REGION	C							
Building Height	5	m	10m		15m		20m	
Angle	≤15	≤30	≤15	≤30	≤15	≤30	≤15	≤30
KlipLok 406	990	570	860	540	770	490	720	450
KlipLok 700	850	490	730	460	660	420	610	390
KingKlip 700	360	210	310	190	280	170	260	160
Force(KN/m)	1.38	2.37	1.59	2.50	1.77	2.78	1.90	2.98

- 1. Roof interface bracket spacing in the above table for panel length of 2.10m.
- 2. The table prepared based on GD Rail capacity and KlipLok bracket pull-out capacity.
- 3. These tables refer to using KlipLok type interface with Adjustable Tilt Leg using 2-M8 bolts for the connection and also with single Triangle frame using 2-M8 bolts for connection.
- 4. Maximum distance allowed from the end of the single Triangle frame base to fixing of the KlipLok bracket is 225mm.
- 5. The above mentioned spacing table is for Roof Interface Bracket Fixing including edge of the roof.
- 6. On purlin means that distance from the purlin to the KlipLok type bracket (center to center) is not more than 100mm.
- 7. Angle refers to tilt angle between roof and panels not to horizontal.
- 8. For panels ranging in length 1580 to 1700mm increase spacings by 11.5%
- 9. For panels ranging in length 1700 to 1800mm increase spacings by 9.0%
- 10. For panels ranging in length 1800 to 2100mm adopt tabulated spacings

5. Verify acceptable Rail End Overhang

Rail End Overhang must equal 50 percent or less of foot spacing. Thus, if foot spacing is 1200mm, the Rail End Over hang can be up to 600mm. In this case, two feet can support a rail of as much as 2400mm (1200mm between the feet and 600mm of overhang at each end).

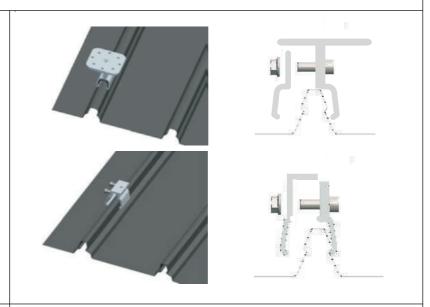
6. Determine the roof slope

The Voslar Klip-Lok interface can be used for roof slope up to 60 degrees. Please verify that the Installation site roof slope is between 0 and 60 degrees.

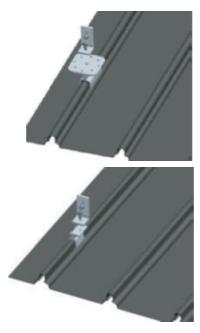


Install on Tin Roof

- 1. Connect KlipLok Interface to the roof tightly.
 - ** Torsion:23-25N.m



- 2. Fix Tin roof hook/Front leg/Rear leg/ Triangle on KlipLok
 - Kliplok700:using 1pc M8*20 bolt
 - Kliplok406:using 1pc bolts and nuts
 - X Torsion:23-25N.m



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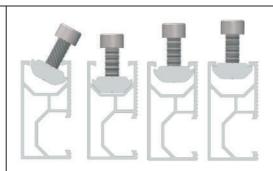


Install The VS-Rail

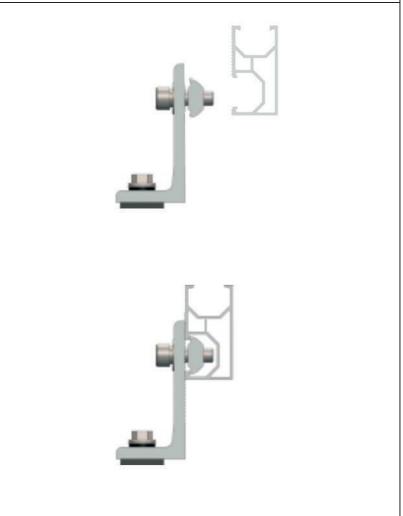
3. D-Module quick mount.

Four steps to quick mount the
D-Module into VS- Rail channel.

Move the assembly to
it's desired final position, and
fastens firmly in place by torque bolt
to 10Nm.



- Connect the tin roof hook with the VS Rail.
 - Insert the D-Module into the side channel of the VS Rail as the step 3 shown.
 - b. Adjust the VS Rail to be level.
 - c. Fasten the bolt.
 - * Torsion: 23-25N.m

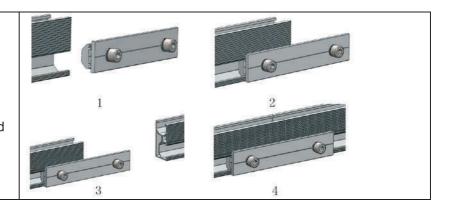




5. VS Rail connect

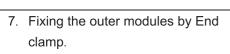
- a. Put the VS Rail Splice into the side channel of the VS Rail about 75mm, then fasten the M8 Bolt.b. Put the other VS Rail into the other side of the VS Rail Splice and
- * Torsion: 23-25N.m

fasten the other M8 bolt.

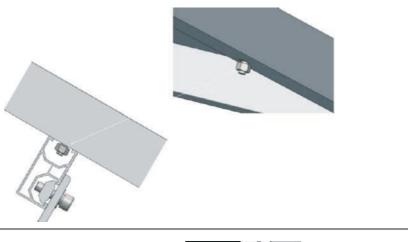


Install the module

- 6. Installing anti-slip protection
 The anti-lip protection is only
 necessary on the lowermost row of
 modules. At first, fit two bolts M6*20
 and nuts into the lower holes of
 each module. Then place the first
 module of the bottom row so that
 the anti-slip protection sits in the rail
 channel of the lowest row of rails
 - * Torsion: 23-25N.m



- a. Put the end clamp kit into the top channel of the VS-Rail as the step 3.
- b. Push the side of module to firmly against the end clamp and then fasten the bolt.
- * Torsion: 23-25N.m



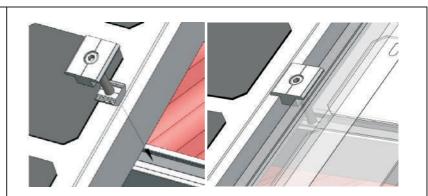


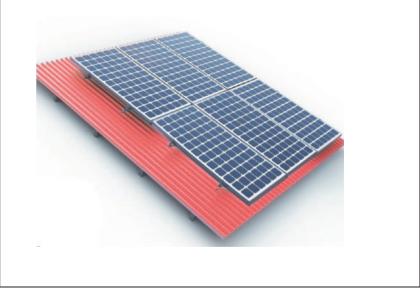


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- 8. Fixing the inter modules by inter clamp.
 - a. Put the inter clamp kit into the top channel of the VS-Rail as the step 3.
 - b. Push the Inter-module clamp firmly against the already fixed module.
 - c. Push the next module against the other side of the module-inter clamp.
 - d. Tighten the bolt
 - * Torsion: 23-25N.m
- Installing the further rows of modules

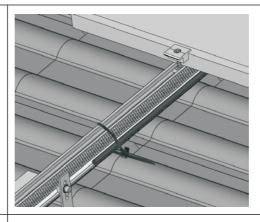




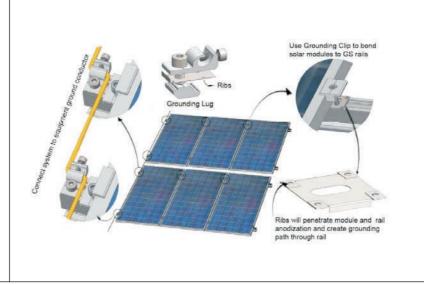


Cable tie and Grounding

 Tie cable with the rail
 a.Tie the cable with the rail using the zip tie



Grounding
 Please see the Voslar Grounding
 System Installation Guide.





- 1. To be used only in combination with modules that include this specific rack system in their installation manual. Fire Rated: C
 - The minimum distance between module and roof is 8.5cm.
- 2. This racking system may be used to ground and/or mount a PV module complying with UL 1703 only when the specific module has been evaluated for grounding and/or mounting in compliance with the included instructions.

Jiang Yin Ao Yin Energy Co.,Ltd. warrants that its Voslar Panel Mounting System is free from defects in materials and workmanship for a period of 10 years from the date on which the Frame is purchased from Voslar, on the terms set out in this warranty.

In the event that the Frame does not conform to this warranty during the Warranty Period, Voslar will, at its option, either repair or replace the Frame or pay the cost of having the Frame repaired or replaced. To the extent permitted by law, Voslar's total liability under this warranty will in no circumstances exceed the repair or replacement of the Frame or payment of the cost of having the Frame repaired or replaced. In the event of replacement of the Frame, any remaining part of the Warranty Period will be transferred to the replacement Frame.

This warranty will not apply to any defect or damage to the Frame arising directly or indirectly from:

- 1. Shipment or storage of the Frame;
- 2.Improper installation, maintenance, repair or use of the Frame;
- 3. Normal wear and tear;
- 4. Misuse, neglect, abuse, accidental damage or modification to the Frame;
- 5. Failure to observe the instructions set out in the System Manual; or
- 6. Power failure, power surges, lightning, fire, explosion, flood, extreme weather conditions, environmental disasters or other causes outside Voslar's control, as determined by Voslar in its sole discretion.

This warranty does not cover, and under no circumstances will Voslar be liable for, any costs associated with the removal, shipping, handling or re-installation of the Frame or the costs of sending personnel to any site to repair or replace the Frame. This warranty is only provided to the original purchaser of the Voslar panels mounting system (Purchaser) or, where the Purchaser is an installer or builder who on-supplies the Frame to another party, to that other party (End-User). This warranty is not transferable.

Where an End-User wants make a claim under this warranty, the End-User must in the first instance contact the installer or builder from whom the Frame was purchased.

This warranty will not apply to any claims received by Voslar after the expiration of the Warranty Period. Voslar makes no warranties, express or implied, other than the warranties made herein, and specifically disclaim all other warranties, representations and conditions to the extent permitted by law. To the extent permitted by law, in no circumstances will Voslar be liable for direct, indirect, special or consequential damages arising from a defective Frame or for any damage or injury to persons or property. Voslar's aggregate liability, if any, in damages or otherwise, will not exceed the invoice value of the Frame at the time of purchase from Voslar.

Any provision contained in this warranty which is prohibited or unenforceable in any jurisdiction will be deemed to be ineffective to the extent of such prohibition or unenforceability and will not invalidate the remaining provisions nor affect the validity or enforceability of that provision in any other jurisdiction.

JIANG YIN AO YIN ENERGY CO.,LTD

Model Name: VS-KLIPLOK

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Table:Revision History

Revision Number	Revision Date	Reason for change	Document Author
01	2019-08-08	Initial Release	Jason