



EMPOWERING OUR WORLD
WITH CLEAN ENERGY

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**POTENCIA
VERDE®**

WIND • SOLAR & CONTRACTORS

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 **KSENG**

Product Catalog 2023



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 **KSENG**

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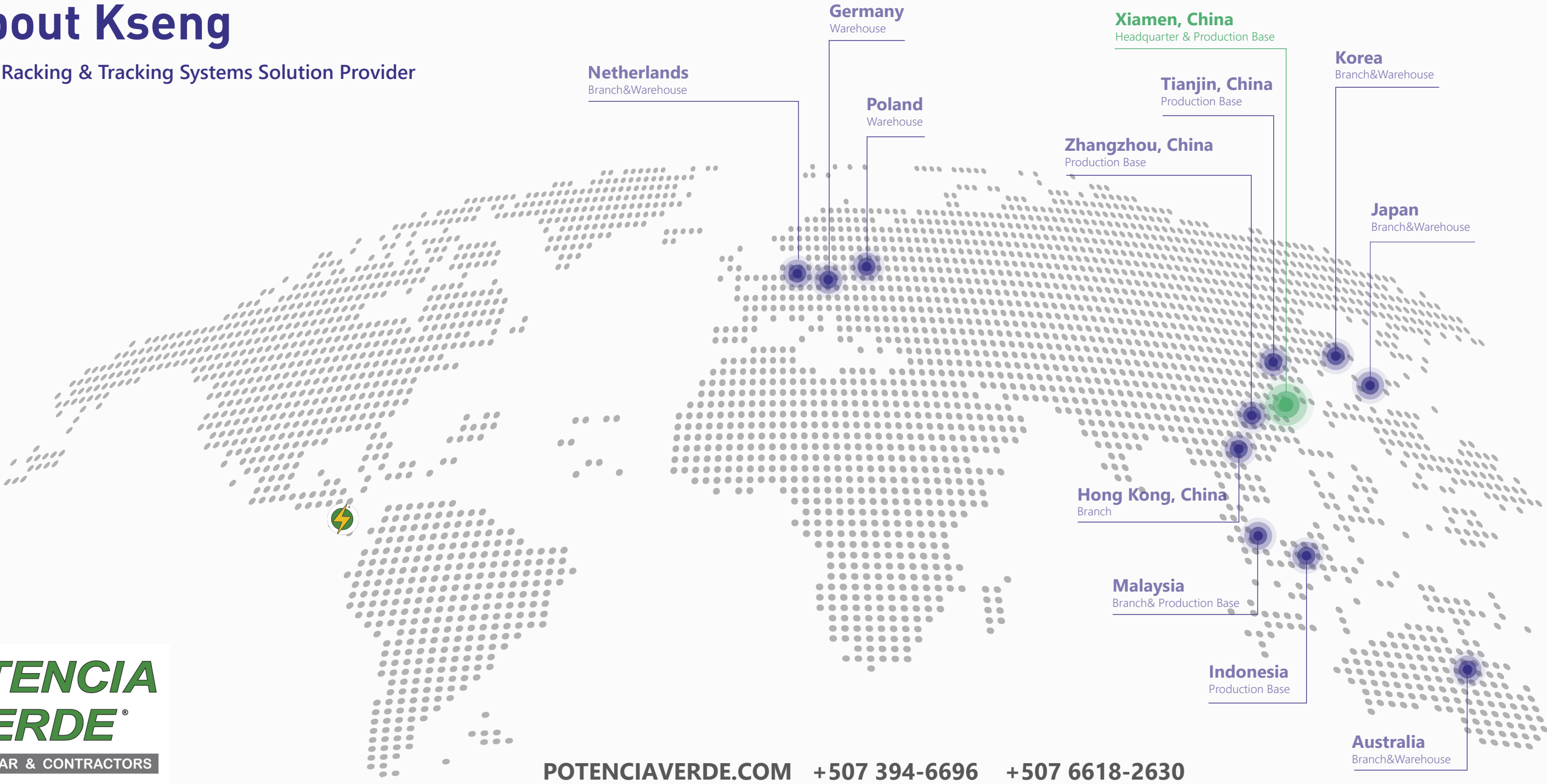
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About Kseng

Solar Racking & Tracking Systems Solution Provider



 **8GW**
Cumulative Shipments

 **6GW**
Annual production capacity

 **6**
Branches & Offices

 **100+**
Covered countries

 **6**
Warehouse

 **60+**
R&D engineers

 **400+**
Employees

 **2015**
Founded

Certification





Tile Roof Mounting System I

- Creative clamp mount by push into rails directly.
- Special clamp clip could offer adjustable height.
- Fast and simple installation, precise adjust height for roofs.



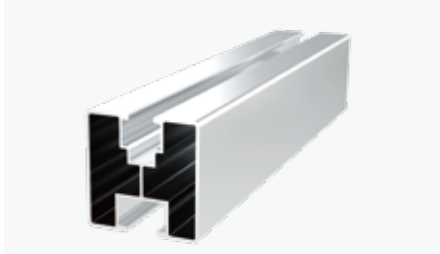
Details

Roof hook

H1=45~82 H2=85~100 W1=115			H1=32 H2=74 W1=183		
Item number	Thickness	Material	Item number	Thickness	Material
RH-0009	5mm	SUS 304	RH-0016	5mm	SUS 304
Roof decking	Carriage bolts		Roof decking	Wood screw	
Tiled roof	M10*25*2		Tiled roof	st6.3*80mm	

H1=40~51 H2=65~94 W1=140			H1=47~60 H2=57 W1=140		
Item number	Thickness	Material	Item number	Thickness	Material
RH-0041	5mm	SUS 304	RH-304-0802	6mm	SUS 304
Roof decking	Wood screw	Carriage bolts	Roof decking	Carriage bolts	
Tiled roof	st6.3*80mm	M10*25*2	Tiled roof	M10*25*1	

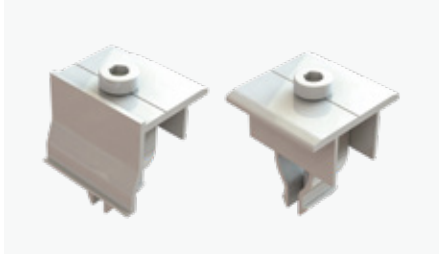
Rail



Item No.	W	H	Material
R059	40mm	40mm	AL 6005-T5

Various lengths available

Mid &End Clamps



Material
AL 6005-T5

Universal module clamps

Bolts and nuts



Material
SUS304

Parameters

Material: AL6005-T5, SUS304 / SUS410	Module orientation: Landscape and portrait
Surface treatment: Anodized	Applicable module thickness: 30mm-40mm
Module: Framed	Warranty: 10 years



Tile Roof Mounting System IV

- ▶ Stainless steel tile hook
- ▶ Flexible adjustment for installation
- ▶ Optimal aesthetic appearance

Roof hook

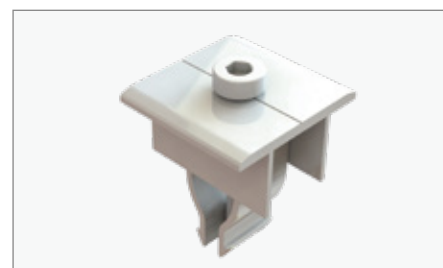


Rail

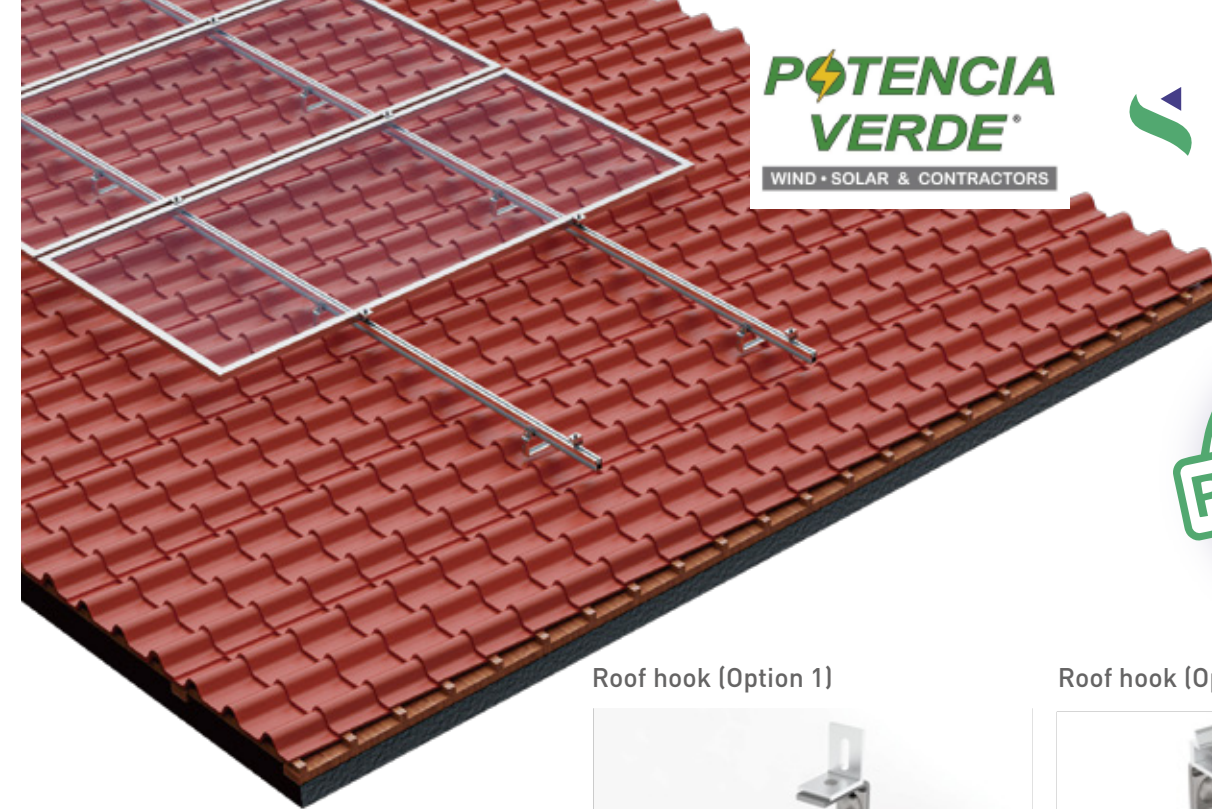
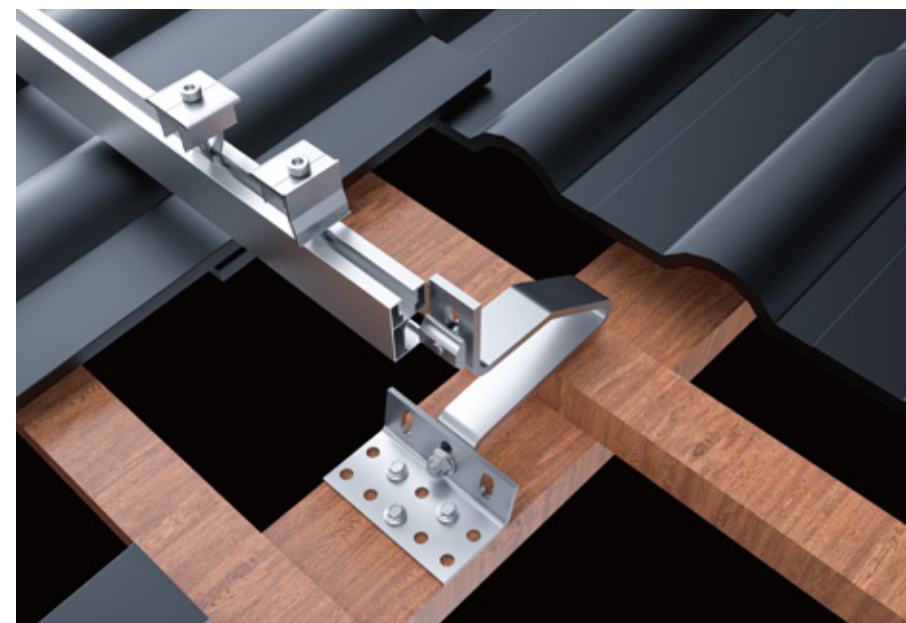
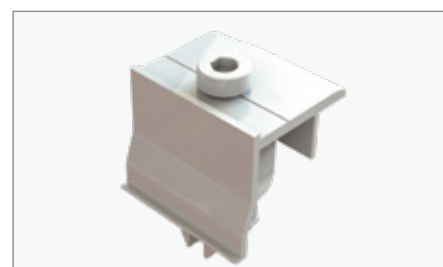


Item No. R061

Mid Clamps



End Clamps



Tile Roof Mounting System V

- ▶ MAC steel tile hook
- ▶ Suitable for all tiled roofs
- ▶ Convenient click system

Roof hook (Option 1)



Roof hook (Option 2)



Rail (Option 1)



Item No. R061

Rail (Option 2)



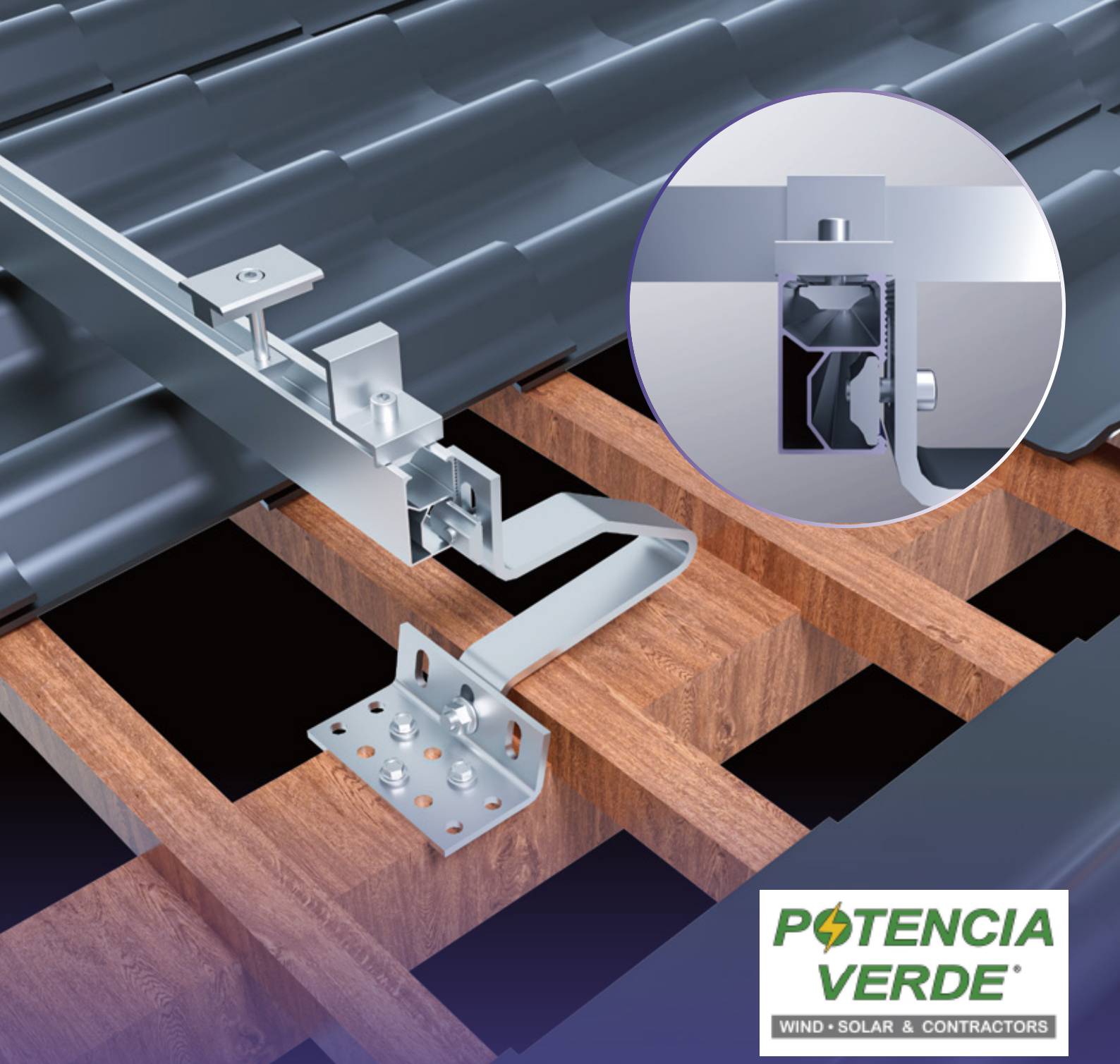
Item No. R067

Mid Clamps



End Clamps





Tile Roof Mounting System III

- Suitable for both commercial and residential roof applications.
- High grade anodized aluminum and stainless steel components.
- Less accessories for easy installation, save the construction time and cost.



Details

Roof hook

	H1=51 H2=120 W1=106		H1=44~51 H2=120 W1=150
--	---------------------------	--	------------------------------

Item number	Thickness	Material
RH-0001	5mm	SUS 304
Roof decking		
Tiled roof		

Item number	Thickness	Material
RH-0018	5mm	SUS 304
Roof decking		
Tiled roof	Wood screw st6.3*80mm	

	H1=53~60 H2=120 W1=76
--	-----------------------------

Item number	Thickness	Material
RH-0037	5mm	SUS 304
Roof decking		
Tiled roof	Carriage bolts M10*25*1	

	H1=47~60 H2=65 W1=140
--	-----------------------------

Item number	Thickness	Material
RH-304-0801	6mm	SUS 304
Roof decking		
Tiled roof	Carriage bolts M10*25*1	

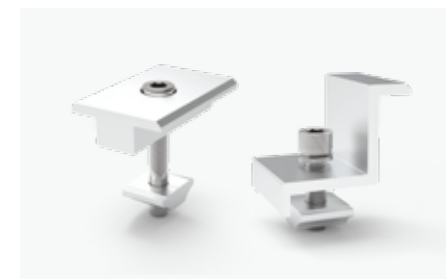
Rail



Item No.	W	H	Material
R066	40mm	40mm	AL 6005-T5

Long rails available for cutting to customized sizes

Mid &End Clamps



Material
AL 6005-T5

Universal module clamps

Rail Connector

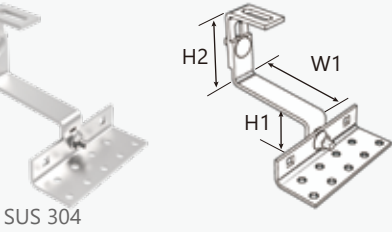
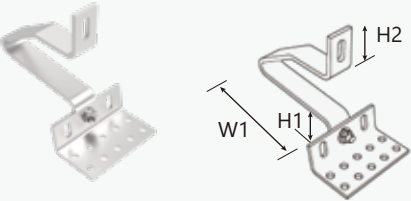
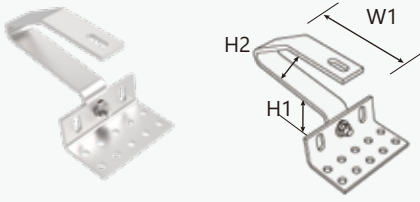
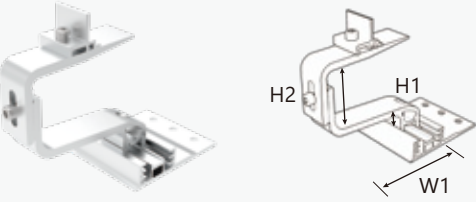
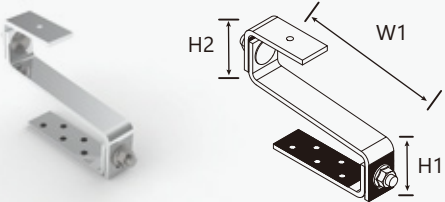
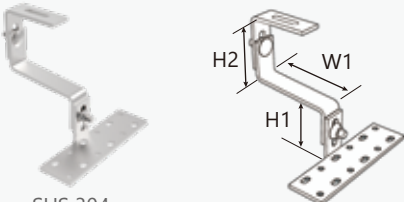


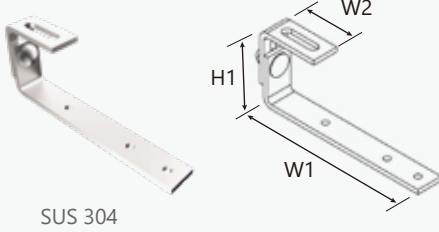
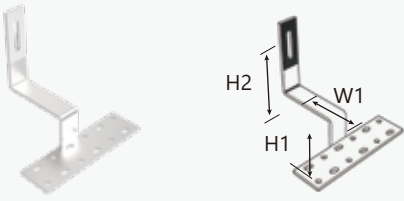
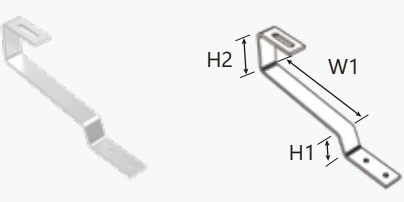
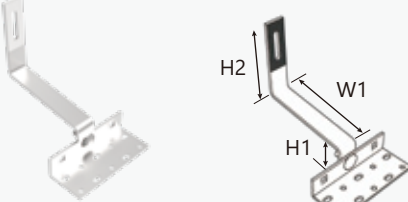
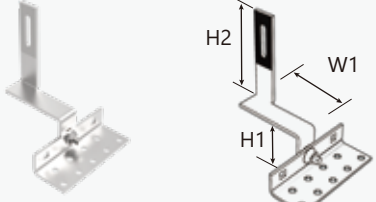
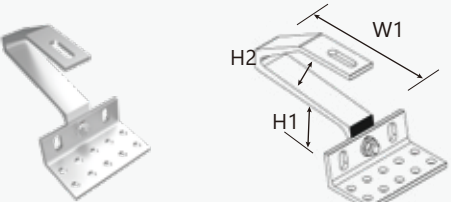
Item No	Material
SR-0028	AL 6005-T5 + SUS 304

Parameters

Material: AL6005-T5, SUS304 / SUS410	Module orientation: Landscape and portrait
Surface treatment: Anodized	Applicable module thickness: 30mm-40mm
Module: Framed	Warranty: 10 years

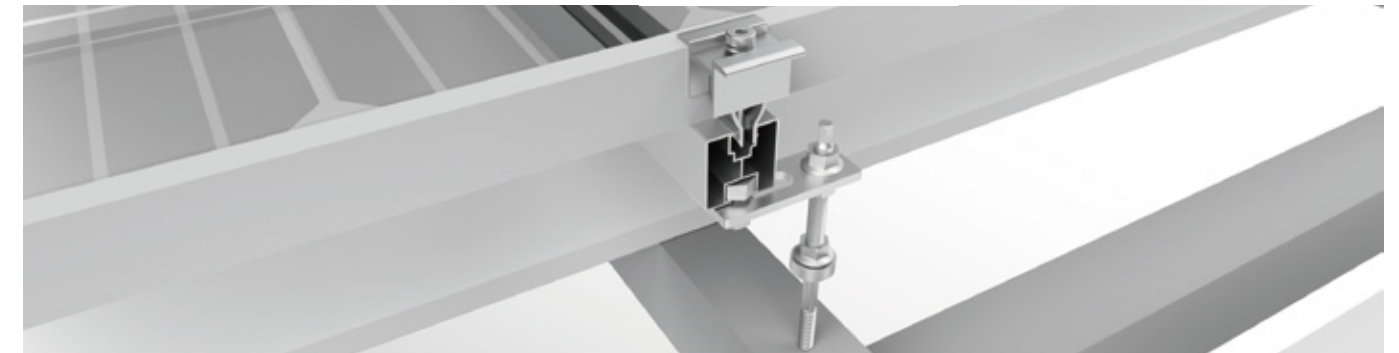
Tile roof hooks

Type No.	Image&Technical	Dimension(mm)
RH-0041	 SUS 304	H1=40~51 H2=65~94 W1=140
RH-0801	 SUS 304	H1=47~60 H2=65 W1=140
RH-0802	 SUS 304	H1=47~60 H2=57 W1=140
HA-0302	 AL 6005-T5	H1=47 H2=61-81 W1=132
RH-0202	 SUS 304	H1=48~59 H2=51~59 W1=150
RH-0009	 SUS 304	H1=45~82 H2=85~100 W1=115

Type No.	Image&Technical	Dimension(mm)
RH-0038	 SUS 304	H1=75-90 W1=255 W2=70
RH-0001	 SUS 304	H1=51 H2=120 W1=106
RH-0016	 SUS 304	H1=32 H2=74 W1=183
RH-0018	 SUS 304	H1=44~51 H2=120 W1=150
RH-0037	 SUS 304	H1=53~60 H2=120 W1=76
HA-0401	 AL 6005-T5	H1=47~60 H2=57 W1=140

Hanger Bolt Mounting System

- Creative clamp mount by push into rails directly.
- Special clamp clip could offer adjustable height.
- Fast and simple installation, wooden rafter and steel purlin options.



1.Hanger bolts for steel purlin

Matching M10 adapter plates are available

Material
Nickel-iron alloy
Type
M10*Length200mm

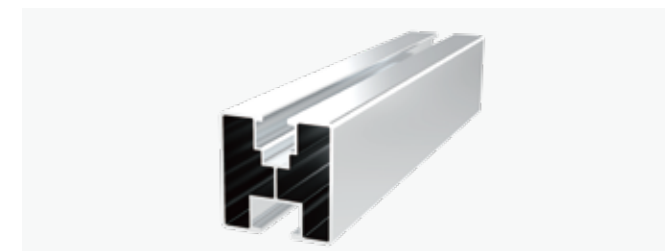
2.Hanger bolts for wooden rafter

Matching M10 adapter plates are available

Material
Stainless steel
Type
M10*Length200mm
M10*Length250mm
M10*Length300mm



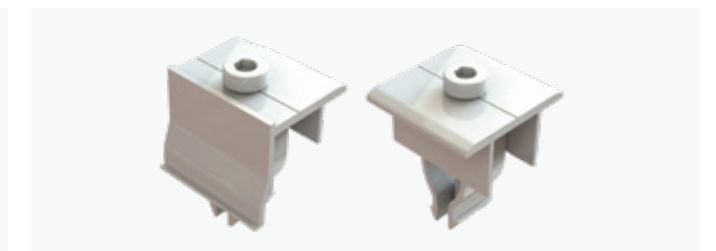
Rail



Item No.	W	H	Material
R059	40mm	40mm	AL 6005-T5

Long rails available for cutting to customised sizes

Mid &End Clamps



Material
AL 6005-T5

Universal module clamps

Parameters

Material: AL6005-T5, SUS304 / SUS410

Surface treatment: Anodized

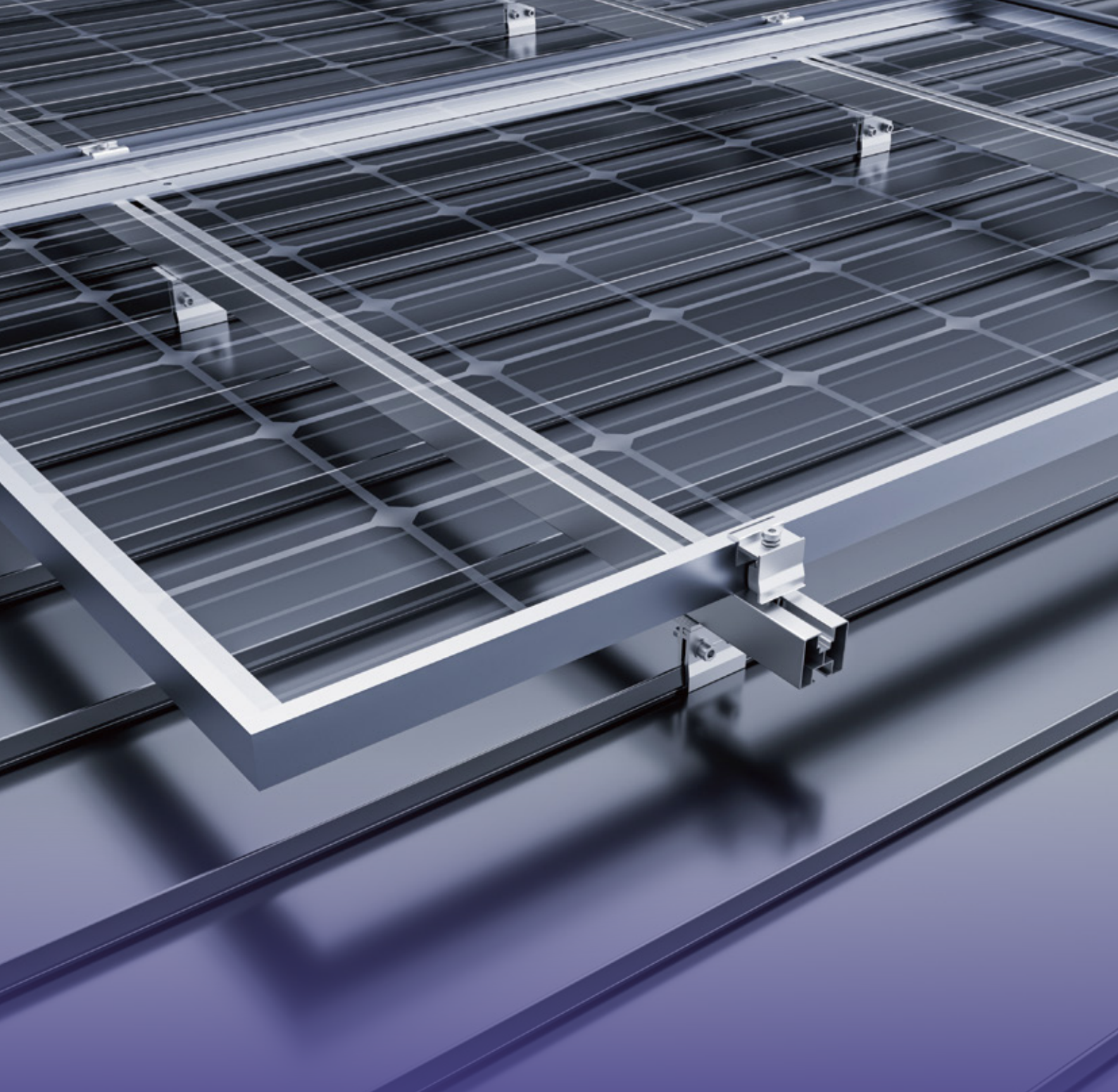
Module: Framed

Length of hanger bolt: 200mm / 250mm / 300mm and customized

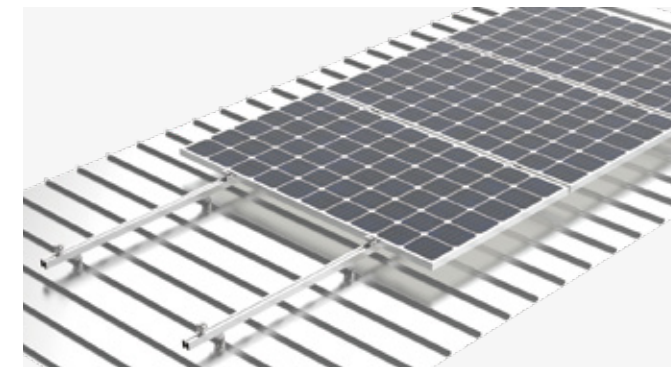
Module orientation: Landscape and portrait

Diameter: M10 / M12

Warranty: 10 years



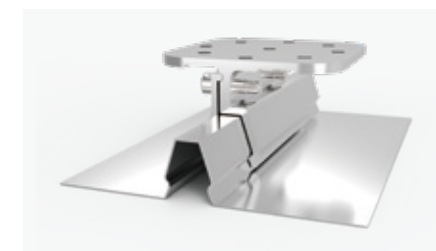
Rail solution



Railless solution



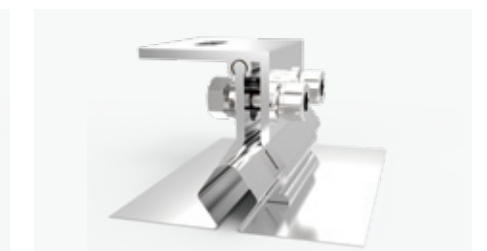
Various roof clamps



Item No.	Opening dimension
RF-0007	20.96mm



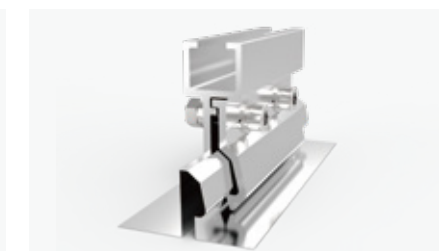
Item No.	Round seam dimension
RF-008	17.8mm



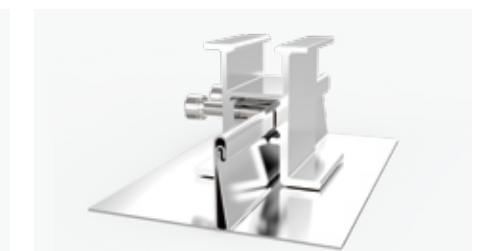
Item No.	Opening dimension
RF-0016	18.5mm



Item No.	Opening dimension
RF-0027	5.32mm



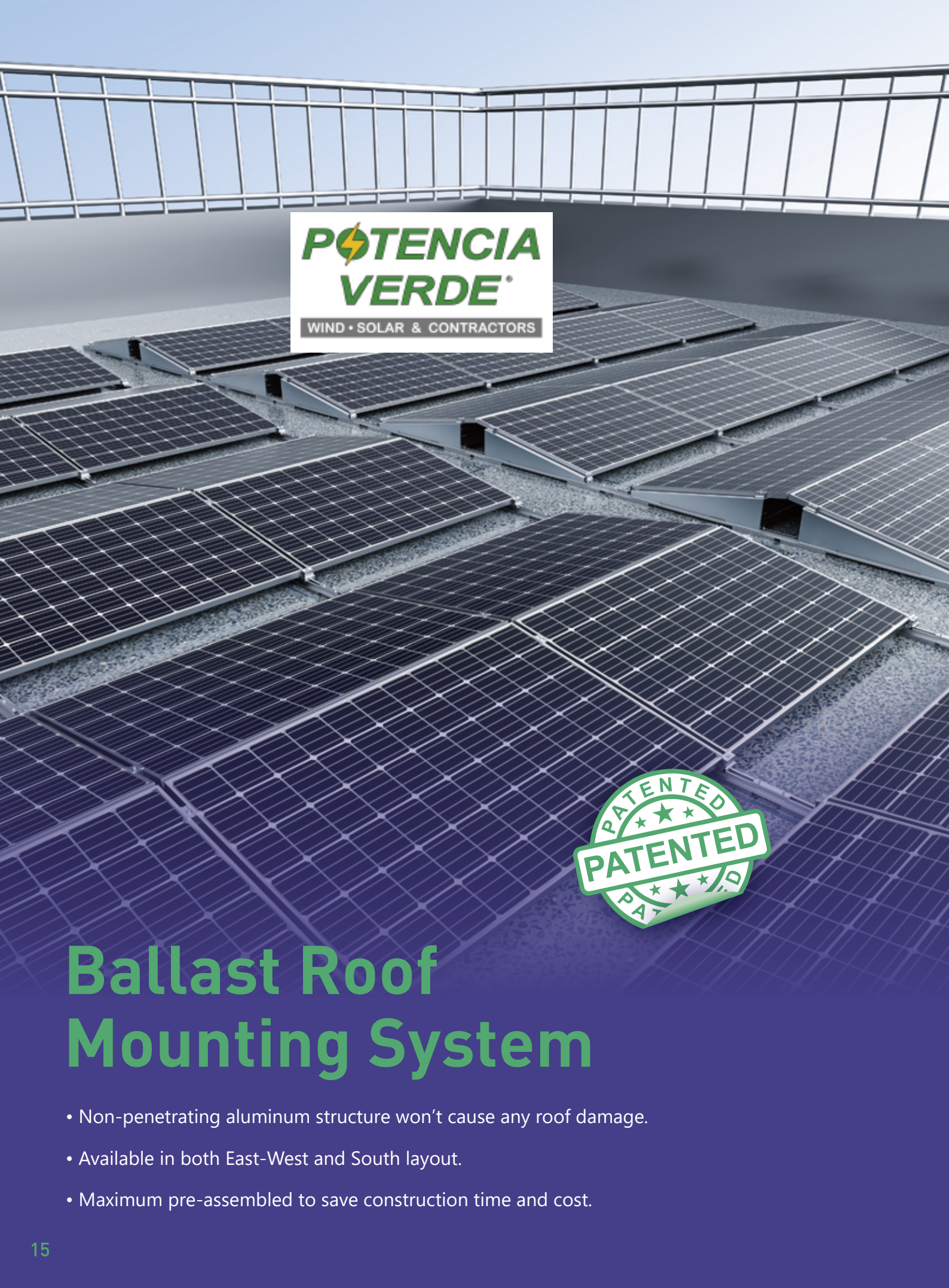
Item No.	Opening dimension
RF-0036	12.63mm



Item No.	Opening dimension
RF-0042	

Standing Seam Roof Mounting System

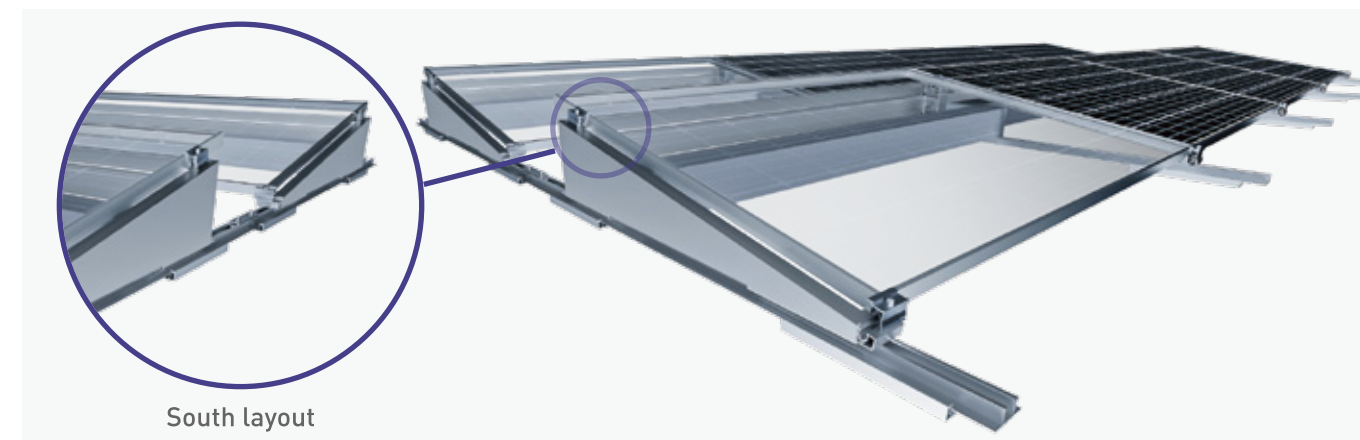
- Various roof clamps for different metal roof applications.
- Both rail or rail-free solution is available for specific need.
- Light weight system for quick and easy installation.



Ballast Roof Mounting System

- Non-penetrating aluminum structure won't cause any roof damage.
- Available in both East-West and South layout.
- Maximum pre-assembled to save construction time and cost.

Details

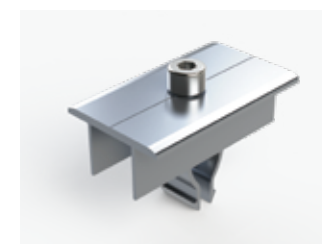


South layout



East-West

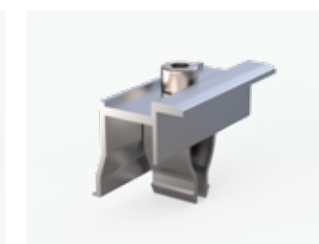
Components



Inter clamp



Bottom clamp



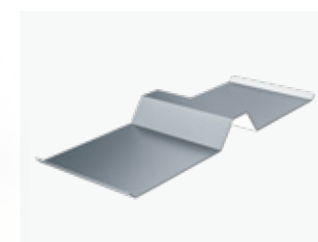
End clamp



Base rail & EPDM rubber



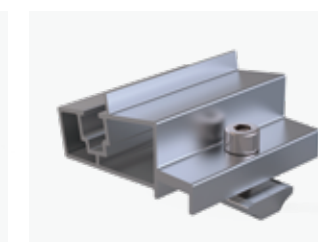
Rail connector



Ballast plate



Rear leg



Front leg

Balcony Easy Solar Bracket –BC (V2.0)

- Flexible fixing method, can be placed on the balcony with railing or wall.
- Highly anti-corrosion 6005-T5 aluminum alloy and robust 304 stainless steel.
- Completely pre-assembled, simply unfolded and secured to the balcony for Installation.



Application scenarios

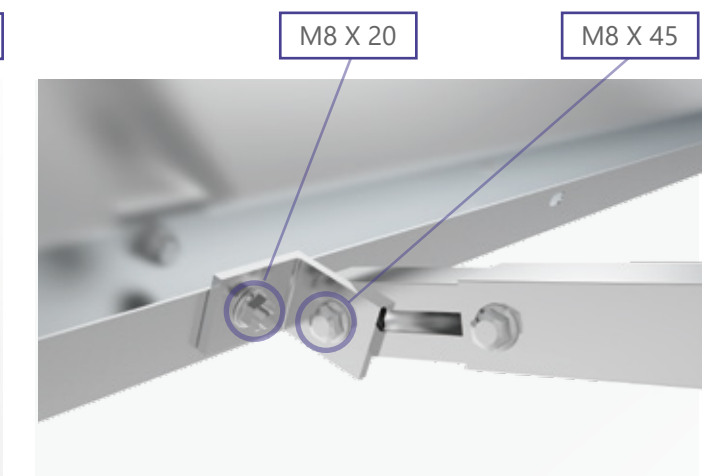
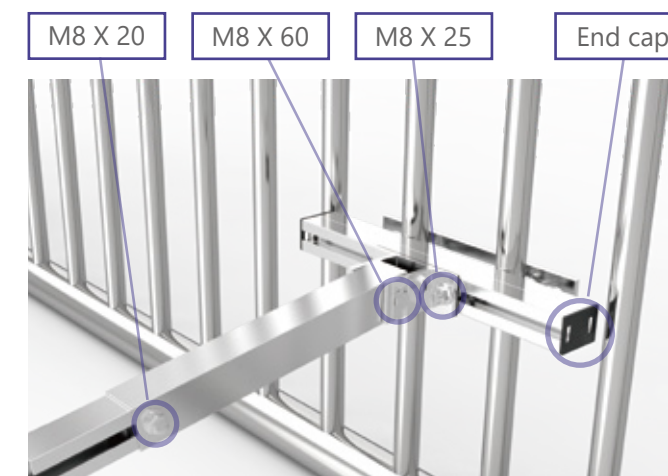


Fixed on balcony with 0°



Fixed on balcony with adjustable tilt
10°-30°

Details



Parameters

Material: AL6005-T5, SUS304

Length of solar module (mm): No size limit

Thickness of solar module (mm): No size limit
(30 or 35 when the angle is 0°)

Gross weight per bracket (kg): ≈2.48kg

Width of solar module (mm): No size limit

Adjustable angle range: 0° or 10°-30°

Multiple scenarios



Garden

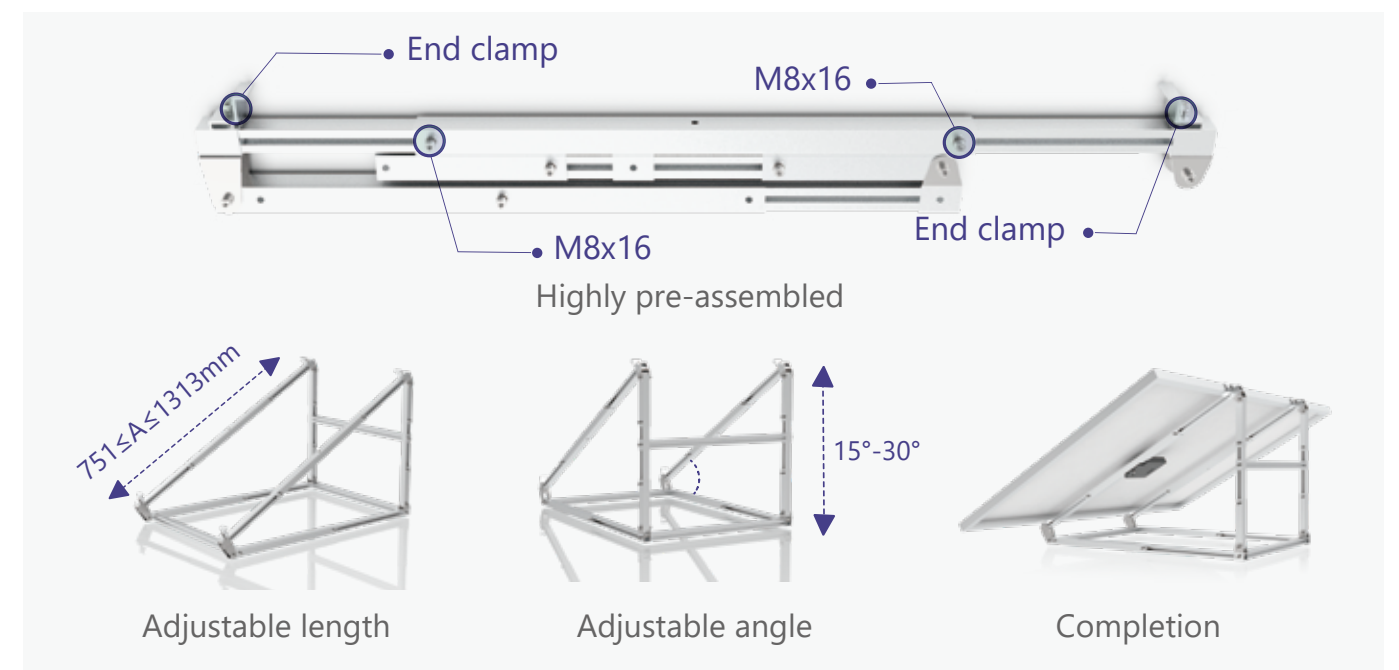


Balcony

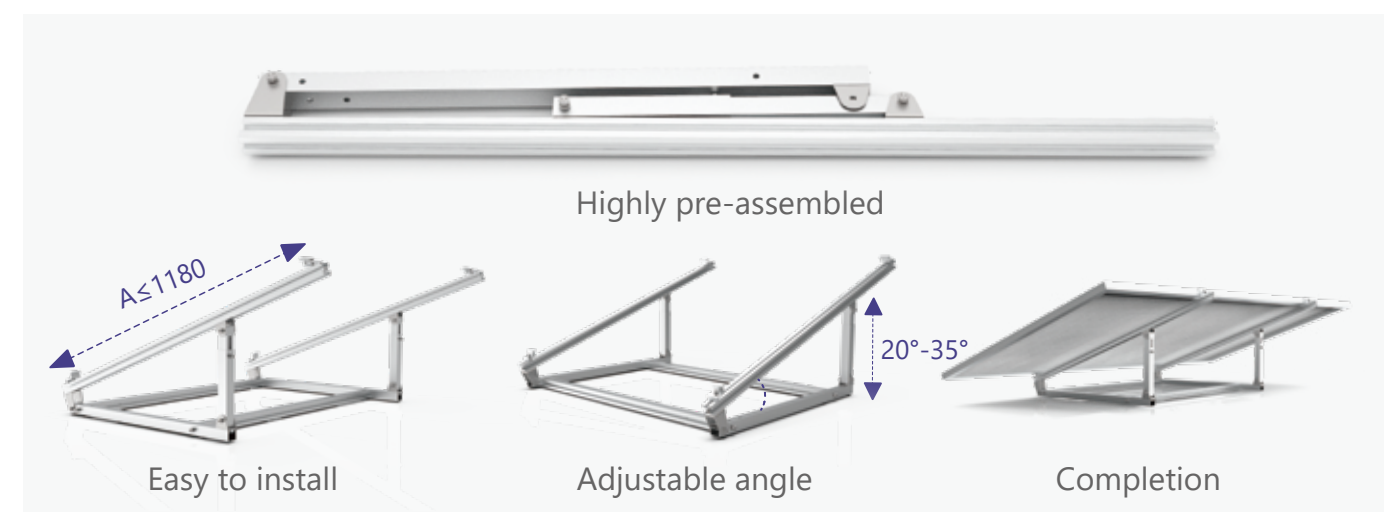


Flat roof

Universal Easy Solar Bracket-UV (V2.1)

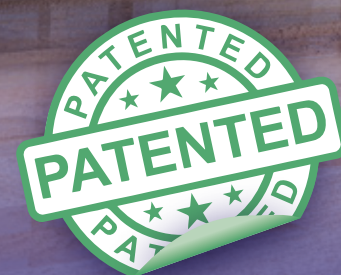


Universal Easy Solar Bracket-UV (V3.1)



Universal Easy Solar Bracket

- Adapt to multiple scenarios: garden, balcony, railing, wall, etc.
- Modular design with plug and play connection, quick and easy installation.
- Adjustable angle manually to adjust the PV module angle for more energy generation.





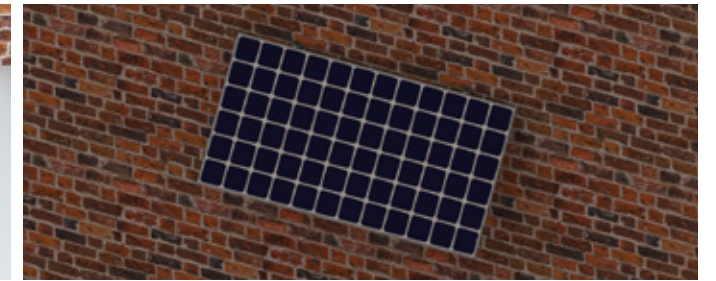
Adjustable Tilt Angle Easy Solar Bracket

- Lightweight and small size, easy to carry
- Simplified components for effortless installation
- Adjustable tilt for maximizing energy yield

Application scenarios



Open space



Fixed to the wall

Details



Front feet



Rear feet



Front view



Back view

Parameters

Material: AL6005-T5, SUS304

Length of solar module (mm): ≤2200mm

Thickness of solar module (mm): 30-50mm

Gross weight per bracket (kg): ≈1.9kg

Width of solar module (mm): ≤1340mm

Adjustable angle range: Customizable



Universal Easy Solar Bracket –JL V1.0

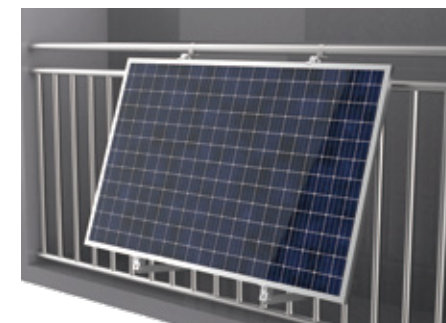
- Simple and most economical solar application.
- Lightweight and stable aluminum alloy solar structure.
- Suit multiple scenarios including garden, balcony, railing, walls and etc.



Multiple scenarios



Garden



Balcony

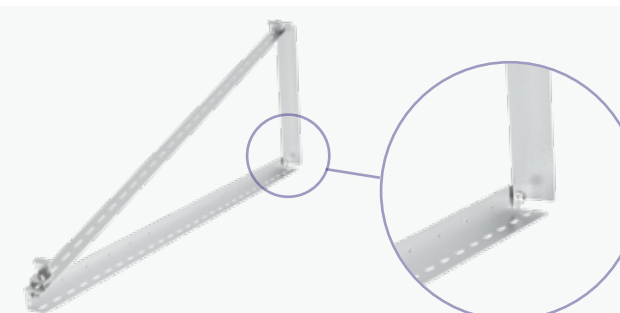


Flat roof

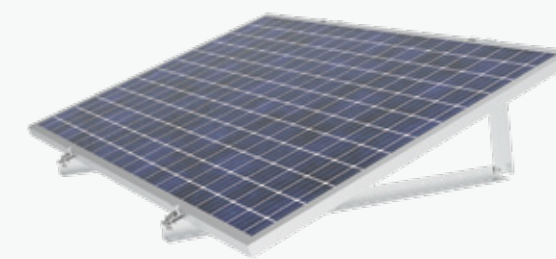
Details



Great flexibility to be adjusted at the best angle for maximum generation output



Quick assembly with the included stainless steel fasteners and precise pre-drilled holes



Lightweight system, ideal for easy installation and transportation

Parameters

Material: AL6005-T5, SUS304

Gross weight per bracket (kg): ≈6.3

Length of solar module (mm): ≤2200

Width of solar module (mm): A≤1340mm

Thickness of solar module (mm): 30-50

Adjustable angle range: 15-28°

Plug and Play Solar Kit



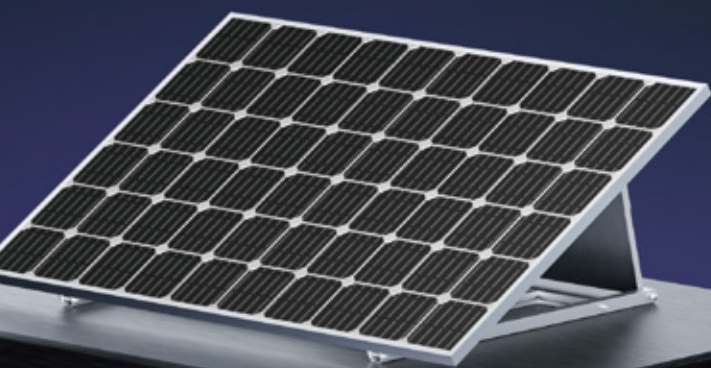
Garden



Flat Rooftop



Platform



Silver: ESKH400-F010-S



Black: ESKH400-F010-B



Kseng Easy Solar Kit is a plug-and-play system composed of solar panel, micro inverter and angle-adjustable bracket, which can be installed by yourself. Modular design without extra commission enables quicker and easier installation, the angle of the bracket can be adjusted to obtain the maximum power generation.

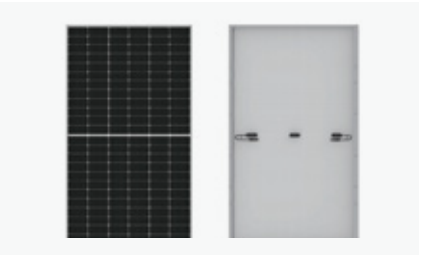
All-In-One design

Integrated with micro inverter, solar panel and bracket.
Portable and foldable for multiple application.

Easier installation

Play and plug connection, no requirement for professional installation, saving labor costs.

Standard Configuration



Solar PV Panel



Solar Bracket



Micro Inverter

Optional configuration



Power Meter



AC Extension Cable



IP67 Waterproof Socket



Data transfer units

Parameters

Solar PV Panel	Micro Inverter
Power: 400 W	Recommended module power: 320 to 540 + W
Module efficiency: 20.5%	Maximum Input current: 12.5 A
Current at maximum power: 12.93A	Rated output power: 400 VA
Glass: Single glass, 3.2mm coated tempered glass	Rated output current: 1.82 /1.74/ 1.67 A
Frame: Anodized aluminum alloy frame	Output voltage/range: 220 ± 10 / 180 - 275 V
Dimension: 1722 × 1134 × 30 mm	Dimensions: 182 × 164 × 30 mm
Weight: 20.8 kg	Weight: 1.75 kg

Packing information



Package for One Pcs
(Size:1760*1155*90mm)



312 Pcs Per 40 H

Easy Solar Kit



Kseng Easy Solar Kit is composed of solar panel, micro inverter and angle-adjustable bracket, which is highly pre-assembled for achieving home energy independence. Aluminum structure is lightweight and easy to install on various scenario such as balcony, wall, railing or any open place.

Suitable For

Flexible Adjustment

It can be adjusted through angle tilt (20°-35°) to obtain more energy according to local installation environments.

Suitable For

Multiple PV modules

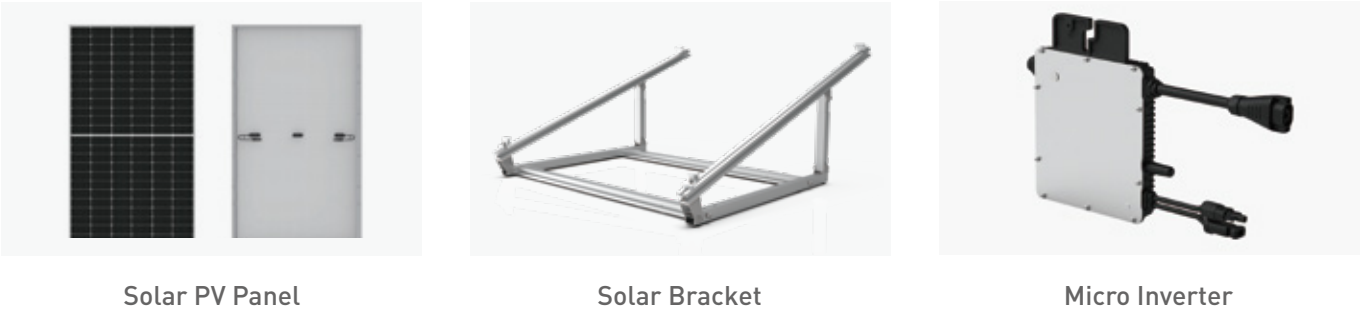
Width of PV module: ≤1180mm
Thickness of PV module: 28-45mm



Black: ESUV400-WX030-B

Silver: ESUV400-WX030-S

Standard Configuration



Optional configuration



Parameters

Solar PV Panel	Micro Inverter
Power: 400 W	Recommended module power: 320 to 540 + W
Module efficiency: 20.5%	Maximum Input current: 12.5 A
Current at maximum power: 12.93A	Rated output power: 400 VA
Glass: Single glass, 3.2mm coated tempered glass	Rated output current: 1.82 /1.74/ 1.67 A
Frame: Anodized aluminum alloy frame	Output voltage/range: 220 ± 10 / 180 - 275 V
Dimension: 1722 × 1134 × 30 mm	Dimensions: 182 × 164 × 30 mm
Weight: 20.8 kg	Weight: 1.75 kg

Packing information



Package for One Pcs
(Size:1760*1155*90mm)



312 Pcs Per 40 H



Waterproof Carport Mounting System



Win-win solution

Win-win solution to effectively use the space while generating electricity



Waterproof design

Fully waterproof design for framed module installation



Flexible structure

Suitable for different topographic conditions



Optional foundation

Various foundation options include precast concrete, bored pier and ground screw

Modular carport options



For 1 car



For 2 cars



For 3 cars



For 4 cars

Details



Specifications

Material: AL6005-T5, Stainless Steel, SUS 304

Standard: AS/NZS 1170, JISC8955-2017, and other international standards

Warranty: 10 Years Warranty, 25 Years Service Life

Foundation: Screw or concrete foundation

Steel Ground Mounting System



Economical solution

Most economical ground mounting system



Competitive price

Made of lower-cost carbon steel & MAC steel



Suitable for any soil type

Suitable for any soil type, can be installed on even or uneven slopes



Modular design

Modular design allows for simple and easy installation

Components



Pillar



Beam



Rail



Rail Connector



Connector

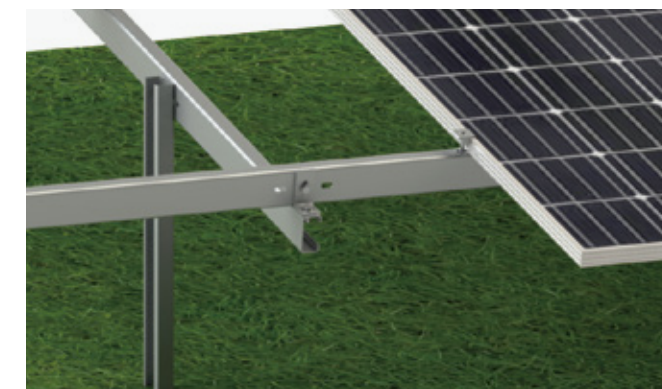


Mid Clamp



End Clamp

Details



Specifications

Material: Zn-Al-Mg coated steel or Q235B, carbon steel

Standard: AS/NZS 1170, JISC8955-2017, and other international standards

Warranty: 10 years warranty, 25 years service life

Foundation: Screw or concrete foundation



Energy Storage System Solution

Application scenarios



Family



Small store



Office



School



Rack-mounted Energy Storage System

Weight(Approx)(KG)	Approx:55kg
Dimension (W/D/H)(mm)	457*139*621mm
Installation Mode	Stack
IP Grade	Ip21



Wall-mounted Energy Storage System

Weight(Approx)(KG)	Approx:56kg
Dimension (W/D/H)(mm)	405*169*781mm
Installation Mode	Wall hanging
IP Grade	Ip21

Performance specifications

Model	KSS-05KWH512V100A-GF
Nominal Voltage	51.2V(16series)
Cell model/Configuration	3.2V100Ah/16S1P(51.2V)
Capacity(Ah)	100AH
Rated Energy(KWH)	5.12KWH
Usable Energy(KWH)	4.6KWH
Max.Charge/Discharge Current(A)	50A /100A
Voltage Range(Vdc)	48-56.5V
Scalability	Up to 10 parallel
Communication	RS232-PC,RS485-Inverter,Canbus-Inverter
Cycle Life	≥6000cycles@25℃,90% DOD,60%EOL
Design Life	≥15 Years(25℃)

Global Solar Exhibitions



2023 Korea



2023 Netherlands



2023 Germany



2023 Austria



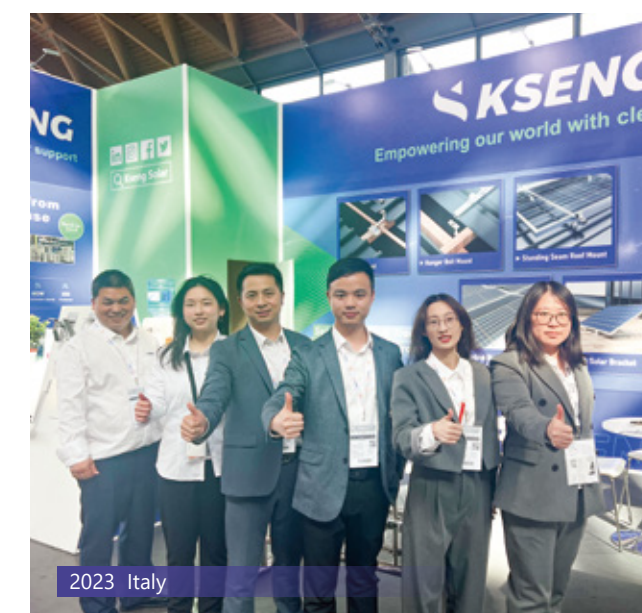
2023 France



2022 Melbourne, Australia



2022 Osaka, Japan



2023 Italy



2023 Poland