

Product Catalog Solar Mounting Solutions













Content

Disclaimer:

We make every effort to ensure that all the information contained within our catalogue is complete and accurate. Due to continuous product optimization we reserve the right to make any changes or corrections to our products and this catalogue as well as individual product information at any time without prior notice. All previous catalogues and individual product information become invalid upon the release of the later publications.

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ABOUT US Enerack

Xiamen Enerack Technology Co., Ltd. located in Xiamen city. Specialize in research, design, development, production, and service of solar PV Mounting systems. We are committed to providing customers with stable, reliable and cost-effective solutions of roof mounting system, ground mounting system, and construction of various photovoltaic power stations for civil and commercial use, government departments, power stations projects etc.

Enerack company owns a factory with more than 80 skilled workers, having over 10 years solar products production experience. With a complete R& D processing and high manufacturing capacity, strictly following ISO9001 quality control system. Our products design strictly in accordance with Australia AS/NZS1170.2, JIS C 8955, MCS012, TUV, UL2703, European building codes and other standards. Ensure that every code and regulation is fully complied with all applicable local or national building codes.

Enerack offering innovative design and integrative settlement solution to our customers based on years of experiences on design, production and sale. We achieved good trust from customers because of our stable and excellent products. We will try our best to become a world leading level supplier of solar photovoltaic systems integration solutions .





Manufacturing facilities for both aluminum and steel products



Global service



Design standard: TUV, AS 1170.2:2011, JIS C 8955:2011, UL 1703/2703



Direct racking supply



Experienced team



15 Years warranty









Global Service & Proven Records

Enerack clamps and solar roof mount has been installed worldwide, from South Africa, Tanzania, Kenya of Africa, Netherlands, Hungary, Belgium, Sweden, Norway, Poland, Ukraine, Romania of Europe, Oman, Qatar, Dubai or Middle East, Sri Lanka, India, Indonesia, Malaysia, Thailand, Philippines, Singapore, Japan, Korea, China of Asia, Australia and New Zealand, to Canada, USA, Mexico, Panama, Costa Rica, Guatemala, Honduras, Colombia, Argentina, Brazil, Uruguay or America.

manufactured for Africa, Europe, Middle East, Asia, America, Australia and New Zealand.







East & West Ballasted PRO-Romania

Pole Mount-Australia

Metal Roof Mount-China



East & West Ballasted Mounting-Bulgaria



Ground Mount-Thailand



Ground Mount-Romania



Carport Mount-Hungary

Ground Mount-Mexico

Metal Roof Mount-Hungary



Metal Roof Mount-Malaysia



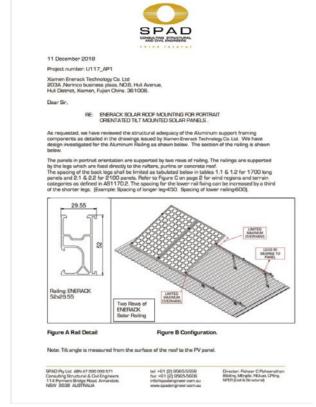
Metal Roof Mount-Poland



Tile Roof Mount-Hungary

Certificate







CERTIFICATE
No. 22 107999 0001 Rev. 00

Holder of Certificate: Xiamen Enerack Technology Co., Ltd.
203A, No.8 Hull Avenue
Hull District
301000 Xiamen
PECPLES REPUBLIC OF CHINA

Production
Facility(ies):
Certification Mark:

Product:
Model(s):
Parameters:
Construction site:
Snow conditions:
Snow district: Zone 2
Wind zone:
Wind zone:
Wind zone:
Wind zone:
Max height of building: 18m
Angle of system:
30*

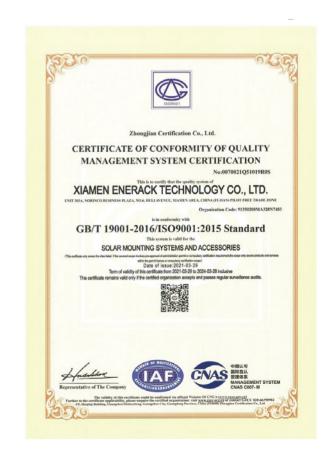
Tested
according to:
The product was tested on a voluntary basis and complies with the essential requirements.
The certification mark in any way: In addition the certification holder must not transfer to certificate to increasing the product was requirements of the besting and certification regulations of TOV SUO Group have to be compiled.
Feet report no:
700002003501-00
Valid until:
2025-05-24

Date, 2020-05-25



ENERACK







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Rail & Accessories



According to different markets, different customer requirements, as well as the project budget, we design and produce various types of rails and accessories to meet the customer's projects need. Each product is subjected to rigorous strength calculation, SGS testing, TUV, CE, and AS/NZS1170.2 certifications.



ERK-TEC Item No. Thin Film Double-glazed Module End Clamp Kit Description



ERK-TIC Thin Film Double-glazed Module Inner Clamp Kit Item No. Description



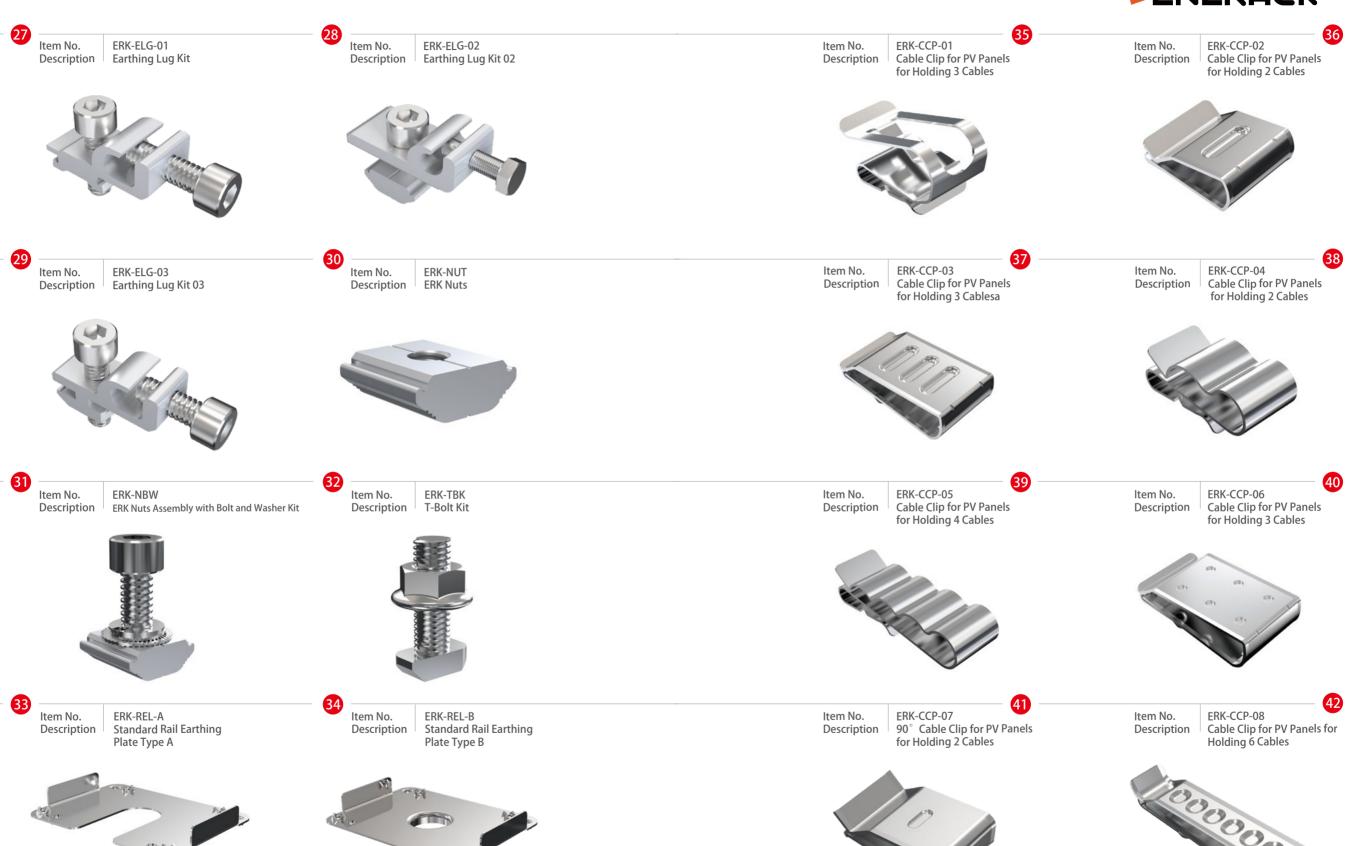


Rail & Accessories









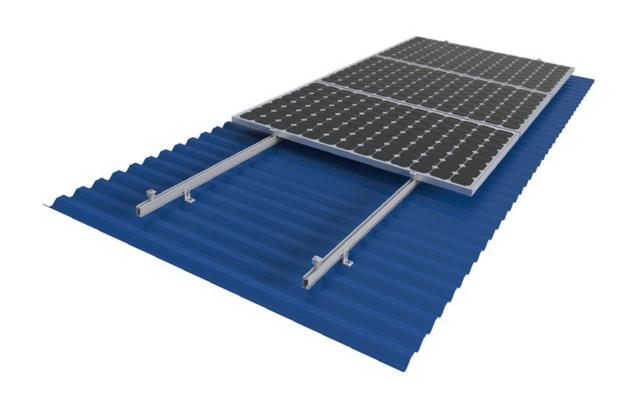


Enerack Tin roof systems divided into two fixing methods:

- 1. Drilling solutions, like bracket L-feet, hanger bolt, T type hook etc.
- 2. Standing seam clamp, direct mounting, no damage to the roof.

A design that includes major specifications saves you inventory cost, quick and easy to install. Innovative design of rail connect base-support can effectively increase the product strength, ensure the safety of the product use. Enerack have a large variety of tin roof brackets for customers' choice Customization allowed according to customers' need to meet special installation requirements.

Technical features:	
Product name	Metal roof mounting system
Application	Metal roof
Inclination	Parallel to the roof
Material	AL 6005-T5, SUS 304, EPDM
Finish	AL 6005-T5 Anodized, SUS 304 Shot blasting
Module orientation	Landscape or Portrait







Description







Item No.

Item No. Description

ERK-TRB-D25 Offset Hole L Feet for Corrugated or Trapezoidal Sheet Metal



ERK-TRB-D03 Hanger Bolt L Feet for Corrugated Fibre Item No. Description Cement, Corrugated or Trapezoidal Sheet Metal $(M10 \times 180, M10 \times 200, M10 \times 250, M10 \times 300)$



Item No. Description

ERK-TRB-D26 Hanger Bolt Offset Hole L Feet for Corrugated Fibre Cement, Corrugated or Trapezoidal Sheet Metal (M10×180, M10×200, M10×250, M10×300)



Hanger Bolt for Corrugated Fibre Cement, Corrugated or Trapezoidal Sheet Metal (M10×180, M10×200, M10×250, M10×300)



Item No. Description

ERK-TRB-D09 Asphalt Shingles Interface



7# Tin Roof Hook for Trapezoidal



ERK-TRB-D06 6# Tin Roof Hook for Trapezoidal Sheet Metal

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ERK-TRB-D08 Item No. Description 8# Tin Roof Hook for Trapezoidal Sheet Metal

ERK-TRB-D22

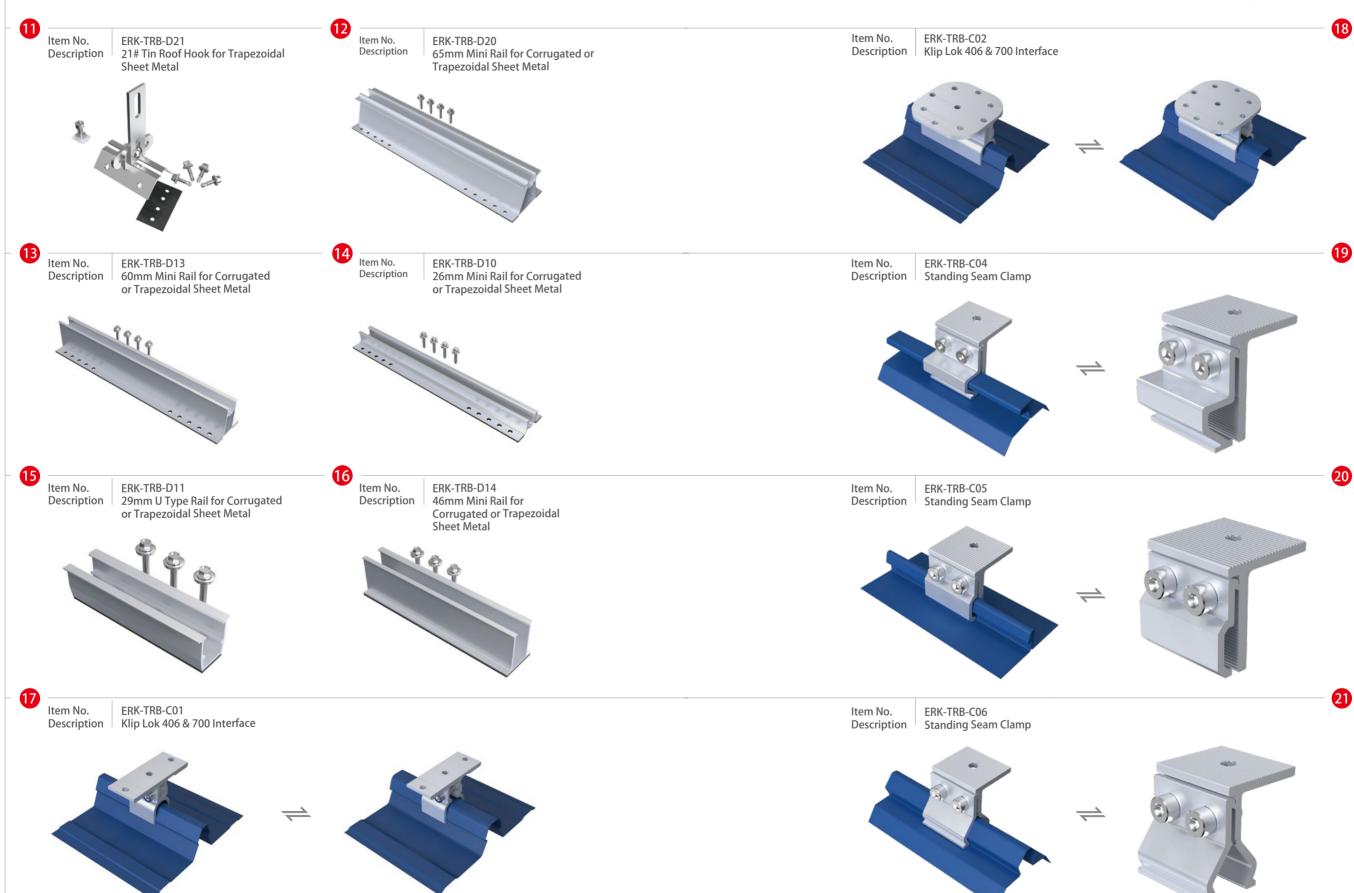
Description

L Feet for Trapezoidal Sheet Metal





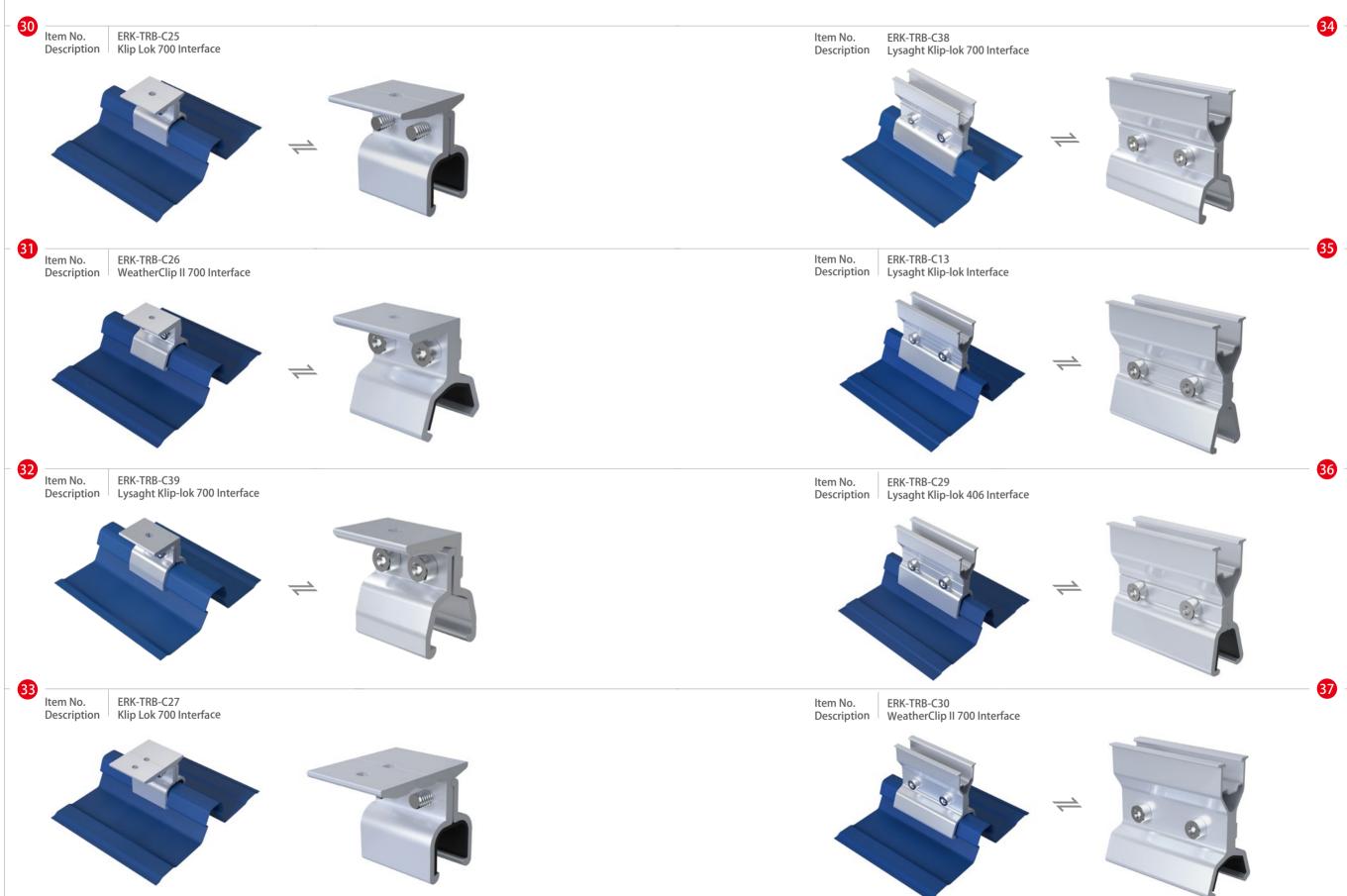




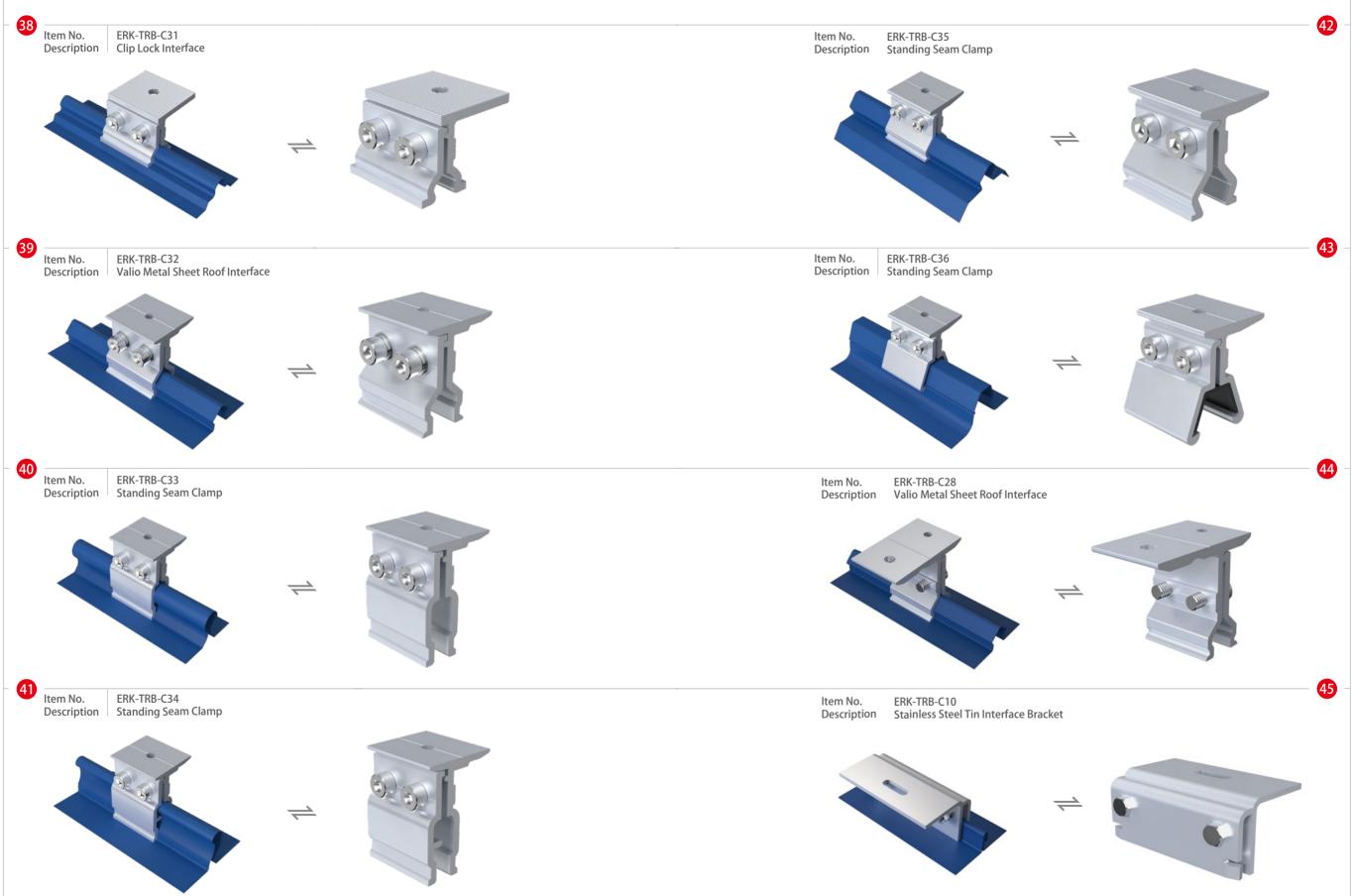












Tile Roof Attachment

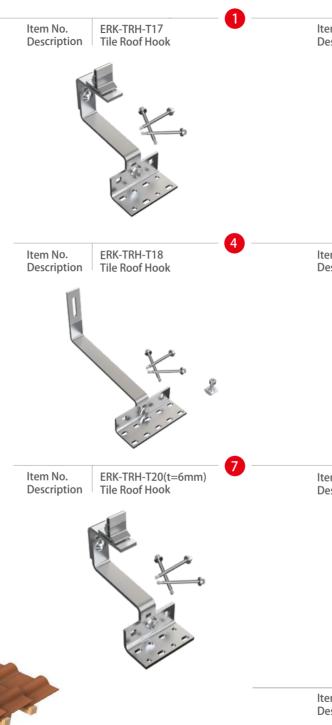


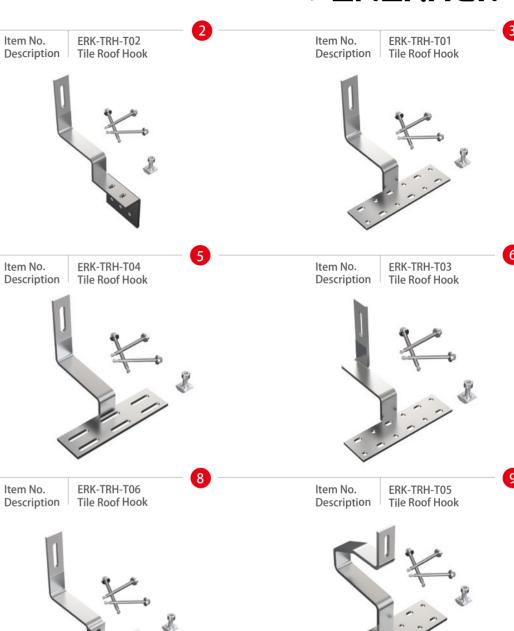
Enerack has many types of tile roof hooks, suitable for most roof types of tile, flat tile, slate tile, asphalt shingle tile.

A design that includes major specifications saves you inventory cost, quick and easy to install. Innovative design of rail connect base-support can effectively increase the product strength, ensure the safety of the product use. Enerack has a large variety of roof hooks provide customers options.

Customization allowed according to customers' need to meet special installation requirements.

Technical features:	
Product name	Tile roof mounting system
Application	Tile roof, Flat tile roof, Slate roof
Inclination	Parallel to the roof
Material	AL 6005-T5, SUS 304
Finish	AL 6005-T5 Anodized, SUS 304 Shot blasting
Module orientation	Landscape or Portrait







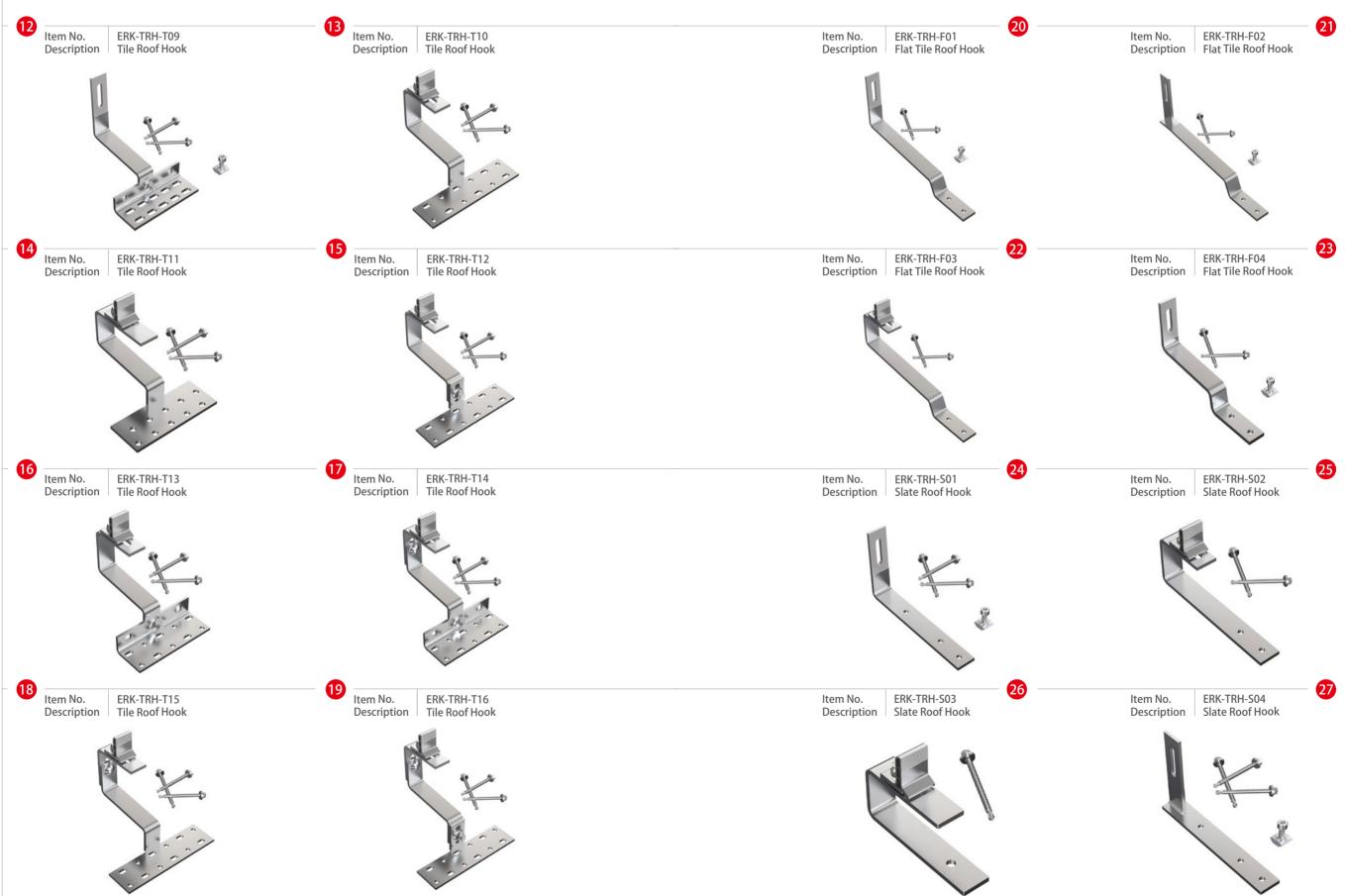




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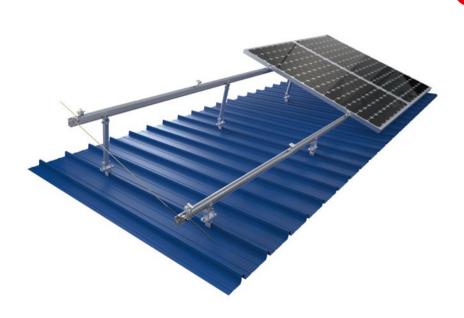
Tile Roof Attachment





Tilt Mounting





Enerack adjustable tilt system is used for metal roof concrete roof. Fixed or adjustable angles as 10-15 deg, 15-30 deg and 30-60 degree are for your option to maximize energy production.

All Products pre-assembled before shipment, to make the installation easy and quick. Unique

design of inner and outer tube with adjustable joints, makes structure stronger, different from the same type products on the market today, and widely compatible with standing seam clamp.

Technical features:	
Product name	Adjustable tilt mounting system
Application	Flat concrete roof, metal roof
Inclination	10-15 $^{\circ}$, 15-30 $^{\circ}$, 30-60 $^{\circ}$ or customized
Material	AL 6005-T5, SUS 304, EPDM
Finish	AL 6005-T5 Anodized
Module orientation	Landscape or Portrait





Item No. | ERK-FEC Description | General End Clamp Kit



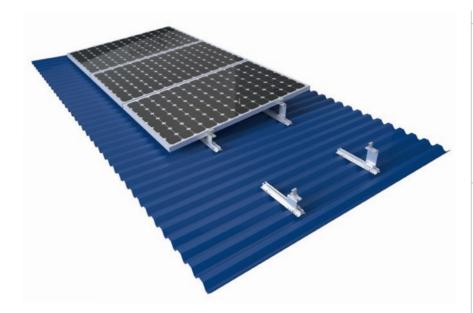
Description Universal Adjustable (30-40mm)
Inner Clamp Kit (Include Spring & Earthing Clip)



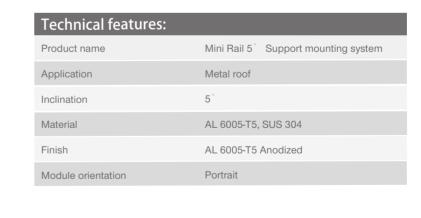


ERK-ARL-1015 ERK-ARL-1530 ERK-ARL-1530





Mini Rail with 5 degree support base, lift up the height of the solar panel to achieve cooling conditions, thus maximizing power generation. Simple design, easy to install, with good price.





Assembly





Description

ERK-AIC-BS Universal Adjustable (30-40mm) Inner Clamp Kit



| ERK-TRB-D10 Description 26mm Mini Rail for Corrugated or Trapezoidal Sheet Metal



Item No. | ERK-MRS-5 Description | Mini Rail 5° Support Rear Leg



Item No. | ERK-MFS-5 Description | Mini Rail 5° Support Front Leg



Tilt Mounting





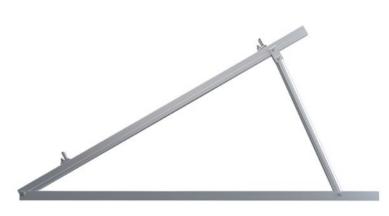
Enerack Tripod system is used for metal roof concrete roof, you can adjust angles as 10-15deg, 15-30deg and 30-60deg options to maximize energy production. All Products pre-assembled before shipment, to make the installation easy and quick for saving your labor cost and time. Customized angle allowed according to customers' need to meet special installation requirements.

Technical feature	s:
Product name	Tripod mounting system
Application	Flat concrete roof, metal roof, open terrain
Inclination	Customized
Material	AL 6005-T5, SUS 304
Finish	AL 6005-T5 Anodized
Module orientation	Landscape or Portrait





Enerack Tripod systems have fixed angle and adjustable angle design for options.



1.Fixed Angle Tripod system(ERK-FTP-X): According to customers' need ,we customize different sizes and angles to make a fast, easy and lower cost installation, this is Suitable for installation at known building angle.



2.Adjustable Angel Tripod (ERK-ATP-X): According to the site need to adjust the tripod angle for installation demand. It is suitable for multi-angle installation projects.









Ballasted-PRO Mounting

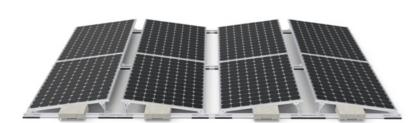




10 or 15 Degree dual tilt

- Maximal area utilized
- Maximal PV quantity installed
- Enerack E-W 10 or 15 is for solar installed on a flat roof, for maximized roof space utilized, and PV quantity installed.
- All parts are made of extruded aluminum, with stainless steel 304 fasteners
- EPDM foam tape is installed at the bottom of the system, separated the roof and system.
- EPDM foam tape provides better friction, and compensates for the height difference when the roof is uneven.

Technical features:				
Product name	E-W 10 or 15			
Application	Flat roof			
Tilt	10° or 15°			
System Material	extruded aluminum profile 6005 T5			
Fastener material	Stainelss steel 304			
Finish	Anodized			
Module orientation	Landscape			









ERK-BPF-10



ERK-BPR-10

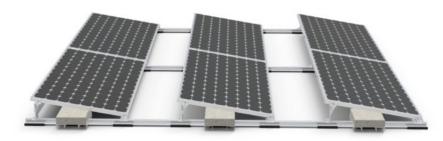


ERK-BPF15



ERK-BPR15

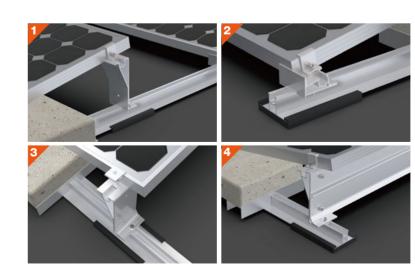




10 or 15 Degree tilt

- Better panel output
- The Enerack S Ballast is for solar PV to be fast and easily installed on a flat roof with 10 or 15 tilt degree inclination. All parts are made of extruded aluminum, with stainless steel 304 fasteners
- EPDM foam tape is installed at the bottom of the system, separated the roof and system.
- EPDM foam tape provides better friction and compensates for the height difference when the roof is uneven.

Technical features:			
Product name	S 10 or 15		
Application	Flat roof		
Tilt	10° or 15°		
System Material	extruded aluminum profile 6005 T5		
Fastener material	Stainelss steel 304		
Finish	Anodized		
Module orientation	Landscape		





ERK-R41-02

ERK-BST-02



ERK-SFR-04



ERK-EFT-03



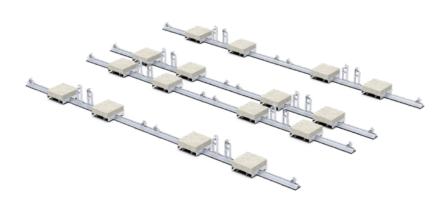
Ballasted-ULT Mounting





Enerack East & West Ballasted-Ult Systems suitable for concrete flat roof and trapezoidal sheet metal roof. Unlike the traditional solar panel fixing method, whose fixing point at the end of the long side of the panel, this series help solar panels to be fixed anywhere on the long side. Therefore, solar panels could withstand greater wind and snow pressure. There is no need to use expansion bolts or chemical bolts on the roof, no damage to roof. The system connects all the panels with the rails into a whole. East-west facing panels have a great effect on resisting wind loads. A combination of high quality aluminium components make a robust, reliable system and quick and easy installation.

Technical feat	tures:
Product name	Ballasted-ULT Series
Application	Concrete flat roof and trapezoidal sheet metal roof Tilt: 10 $^{\circ}$
System Material	Extruded aluminum profile 6005 T5, EPDM
Fastener material	Stainless steel 304
Finish	Anodized
Module orientation	Landscape







ERK-BUR-10



ERK-R41-02



ERK-BST-02



ERK-SFR-04



ERK-EFT-03



Product Feature:

Solar panels could withstand greater wind and snow pressure.

Maximal area utilized.

Maximal PV quantity installed.

Maximized roof space utilized, and PV quantity installed.

Better panel output.

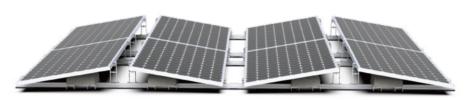
Solar PV to be fast and easily installed on a flat roof with 10 tilt degree inclination.

All parts are made of extruded aluminum, with stainless steel 304 fasteners.

EPDM foam tape is installed at the bottom of the system, separated the roof and system.

EPDM foam tape provides better friction and compensates for the height difference when

the roof is uneven.



East & West 10° for concrete flat roof



South or North 10° for concrete flat roof



South or North 10° for trapezoidal sheet metal roof

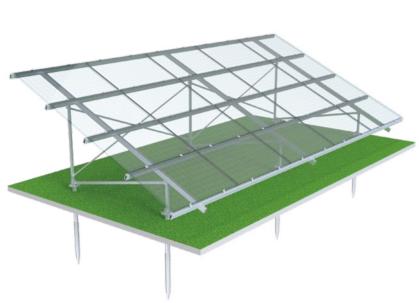






Ground Mounting





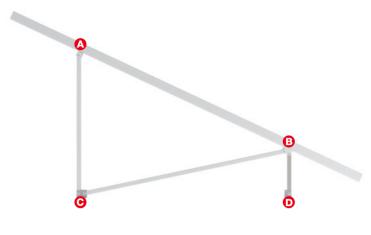
Standard Ground Mounting System

Aluminum ground mount, optimized for lightweight, quick and efficient installation with flexible on engineering upon site conditions.

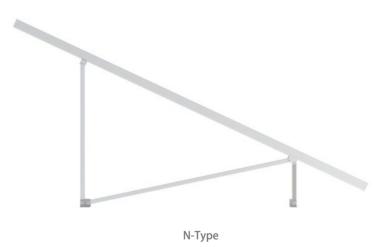
Optional on foundation by ground screw or concrete. Maximize pre-assembled before shipment

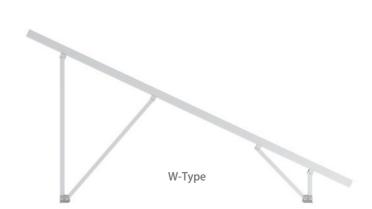
Technical features:				
Product name	Standard ground mounting system			
Application	Flat concrete roof, open terrain			
Inclination	Customized			
Material	AL 6005-T5, SUS 304, Q235			
Finish	AL 6005-T5 Anodized, Q235 Hot-dip galvanizing			
Module orientation	Landscape or Portrait			





Ground mounting system has been maximized pre-assembly before shipment, which make the installation more convenient.





2 Pre-Assembly









 Depending on the different design conditions, pre-assembly support is generally designed into the following two shapes:

The N-Type pre-assembly support is mainly used for the small wind & snow load condition projects.(2-4 columns)

The W-type pre-assembly support is mainly for the 4-5 columns wind & snow load condition projects. We will add cross support to make the structure stronger if the ground height is higher or wind & snow load is larger.

Ground Mounting





Ground mounting system are commonly used for Concrete Foundation and Screw Foundation.



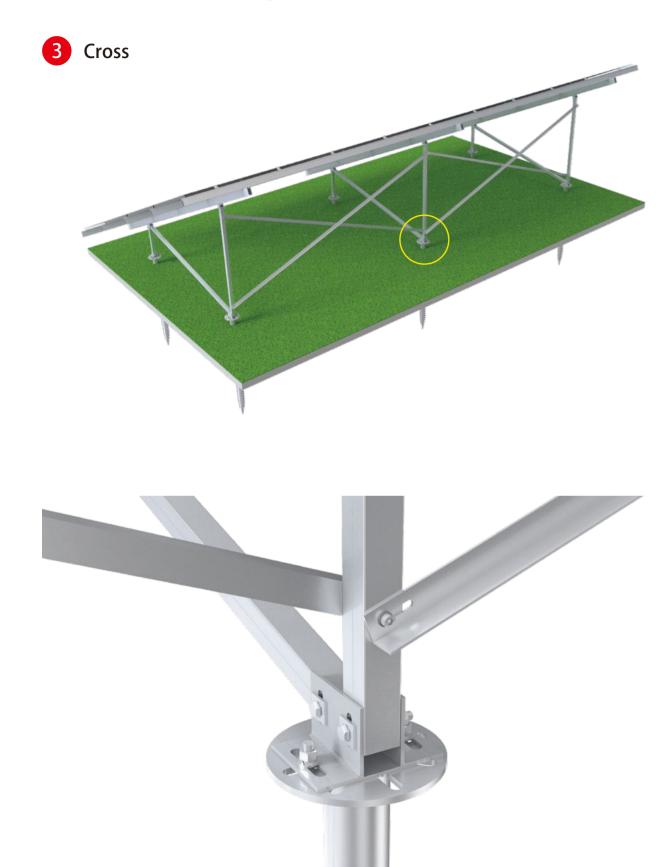


Concrete Foundation

Screw Foundation

	Item		С	oncrete Foun	dation	S	crew Found	ation		
	Applicable t	terrain			Flat,EvenTilt,Ladder					
Applicable geology (reference)				Random	dom SWS3≤N≤10 SWS Test, cohesive soil 3 ≤N≤10					
Difficulty Level				Complicated			Easy			
	Cost			Higher			Lower			
	Adjustment range			Not convenient to adjust the height of base			Larger			
(Corrosion resistance			Anti-Corrosion			Hot-dip galvanizing on the surface of the screw foundation, which has met the anti-corrosion requirements of the service life			
	c	onventional p	ile compres	sion and tensi	le strength r	eference valu	es(KN)			
Ground	N=	:3	N:	=5	N	√ 1=7	N:	=10		
Screw Length	Resistance	compression Resistance	Resistance	compression Resistance	Resistance compression Resistance		Resistance	compression Resistance		
1600	8.7	9.1	14.6	14.6 15.2 20.4		21.4	29.2	30.6		
1800	9.9	10.2	16.5	16.5 17.1 23.1			33	34.4		
2000	11	11.4	18.4	19	25.8	26.7	36.8	38.2		
2200	12.2	12.5	20.3	21	28.4	29.4	40.6	42		
2500	13.9	14.2	23.2	23.8	32.4	33.4	46.4	47.8		

Remarks: The N value of the soil in this table are based on the Swedish penetration test (SWS).



Ground Mounting





U Pile Ground Mounting System

Enerack U Pile Ground Mounting Systems suitable for large scale power station installation, Pile to the ground makes installation faster and lower cost than others. Each components are Maximize pre-assembled, widely save your labor cost and installation time. Customization allowed according to project wind &snow load, provide economic & effective solutions.





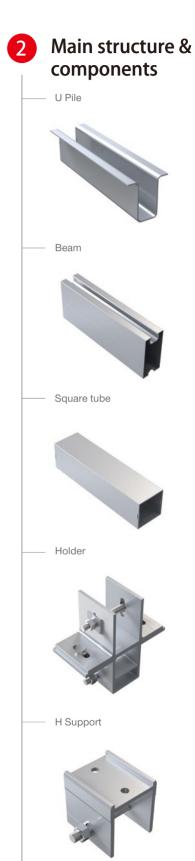


The U type Pile Ground Mounting System has been folded into a rectangular shape before shipment. Easy to transport.

Technical features:				
Product name	U Pile ground mounting system			
Application	Open terrain			
Inclination	Customized			
Material	AL 6005-T5, SUS 304, Q235			
Finish	AL 6005-T5 Anodized, Q235 Hot-dip galvanizing			
Module orientation	Landscape or Portrait			

		ConventionalUpilecompressionandtensilestrengthreferencevalues(KN)						
	N=3		N=5		N=7		N=10	
Penetration depth	Resistance	Compressi on Resistance	Resistance	Compressi on Resistance	Resistance	Compressi on Resistance	Resistance	Compressi on Resistance
1500	9.5	11.5	15.7	19.3	21.9	27	31.1	38.6
1600	10.1	12.3	16.7	20.6	23.3	28.8	33.2	41.2
1700	10.8	13.1	17.8	21.8	24.8	30.6	35.3	43.7
1800	11.4	13.9	18.8	23.1	26.2	32.4	37.3	46.3
2000	12.6	15.4	20.8	25.7	29.1	36	41.4	51.5
2200	13.8	17	22.9	28.3	32	39.6	45.6	56.6
2500	15.7	19.3	26	32.1	36.3	45	51.7	64.3

Remarks: The N value of the soil in this table are based on the Swedish penetration test (SWS).



Carport Mounting





Carport Mounting System

Enerack Carport Mounting Systems offers a simplified and economical solutions that provides a perfect combination of Shade parking and solar power generation as well as electric vehicle charging. It applied for family parking, commercial parking, awnings and even bus stops.



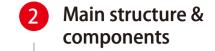
1 Structure & components





highly pre-assembled main structure for solar modules landscape or portrait $5^{\circ}/8^{\circ}/10^{\circ}$ inclination or custom customized and engineered to project maximal span up to 5.4m cover up to 2 parking spaces per span.

Technical features:	
Product name	Carport mounting system
Application	Solar parking structure
Inclination	5° , 8° , 10° or customized
Material	AL 6005-T5, SUS 304
Finish	AL 6005-T5 Anodized
Module orientation	Landscape





- Square tube



H Support



Base



Waterproof Carport System





Our carport systems are sold to Africa, the Middle East, Southeast Asia, Europe and the South America. The idle area of the parking shed is used to build a photovoltaic parking shed, and the combination of photovoltaic power generation and carport is the simplest one in the combination of photovoltaic and building. It can not only achieve all the functions of the traditional carport, but also bring electricity generation benefits to the owner. It is stored in the battery by the charging device or directly supplied to the electric vehicle to charge for self-use. You can even use extra power to get online. Using aluminum alloy structure bracket, simple installation, generous, fashionable, elegant.

Product Overview:	
Install Site	Flat outdoor
Material	AL6005-T5, SUS304
Standards	AS/NZ1170.2、JIS C 8955、MCS 012、TUV、UL2703 etc
Tilt Angle	5°, 30°





Features:

- 1. Good heat absorption.
- 2. Good waterproof and rain protection, convenient installation, and flexibility.
- 3. Make full use of the original site to provide green energy.
- 4. Suitable for frame panel:Poly modules, double glass module etc.

Installation place: home, company, shopping mall, large parking lot.

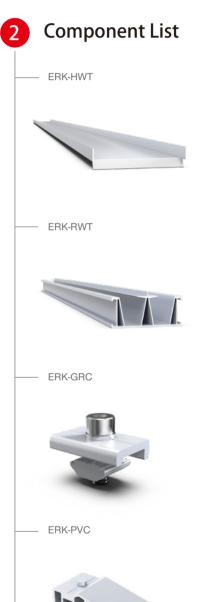
Parking category: battery car/bicycle, car, bus.

Number of parking Spaces: 1 parking space, 2 parking Spaces,

3 parking Spaces, multiple parking Spaces (large span).

By row: single row parking space, double row parking space.







Product Catalog Solar Mounting Solutions







Web



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