



www.fda-solar.at

Gesamtangebot Bausatz

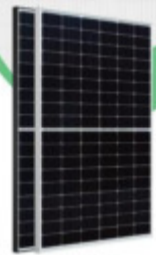
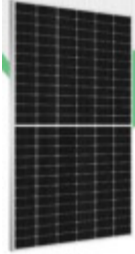


Brutto

ohne Montage
Preise ab Lager Graz

Graz, 25.04.2023

Irrtümer, Druckfehler und Preisänderungen vorbehalten

BLUESUN SOLAR Module

Modul	Info	Listenpreis Brutto/Stk.	Listenpreis Netto/Stk.
425W half cut solar Panel 	Power: 425W Weight: 21,5 KG Size: mm 1722*1134*30	€ 228,80	€ 190,67
560W half cut solar Panel 	Power: 560W Weight: 28,6 KG Size: mm 2278*1134*35	€ 301,39	€ 251,16
440W Full Black Shingled Solar Panel (Entspiegelt) 	Power: 440W Weight: 21,2 KG Size: mm 1812*1096*30	€ 269,10	€ 224,25
700W Lichtdurchlässig Glas/Glas 2mm Panel für Carports 	Power: 700W Weight: 39 KG Size: mm 2384*1303*35	€ 452,09	€ 376,74

zertifizierte Wechselrichter HUAWEI

nicht für Akkubetrieb geeignet

Artikelnummer	Leistung	Zertifikat	Listenpreis Brutto/Stk.	Listenpreis Netto/Stk.
5KTL-M1	max. 5 KwP DC	CE	€ 2.070,00	€ 1.725,00
6KTL-M1	max. 6 KwP DC	CE	€ 2.235,60	€ 1.863,00
8KTL-M1	max. 8 KwP DC	CE	€ 2.732,40	€ 2.277,00
10KTL-M1	max. 10 KwP DC	CE	€ 3.229,20	€ 2.691,00
12KTL-M2	max. 12 KwP DC	CE	€ 3.394,80	€ 2.829,00
20KTL-M2	max. 20 KwP DC	CE	€ 3.891,60	€ 3.243,00
30KTL-M3	max. 30 KwP DC	CE	€ 4.554,00	€ 3.795,00
36KTL-M3	max. 36 KwP DC	CE	€ 4.885,20	€ 4.071,00
40KTL-M3	max. 40 KwP DC	CE	€ 5.216,40	€ 4.347,00
50KTL-M3	max. 50 KwP DC	CE	€ 6.210,00	€ 5.175,00
60KTL-M3	max. 60 KwP DC	CE	€ 6.607,44	€ 5.506,20
100KTL-M3	max. 100 KwP DC	CE	€ 10.432,80	€ 8.694,00
115KTL-M2	max. 115 KwP DC	CE	€ 10.764,00	€ 8.970,00
Wifi Modul (Fernwartung)			€ 331,20	€ 276,00

Solarkabel

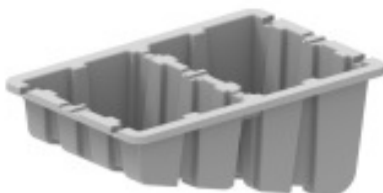
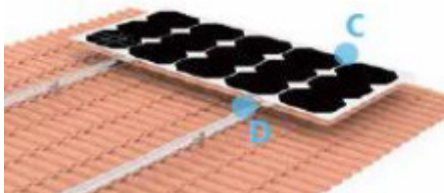
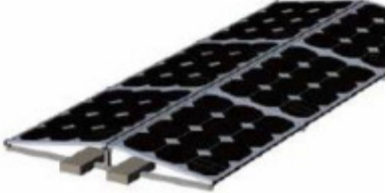
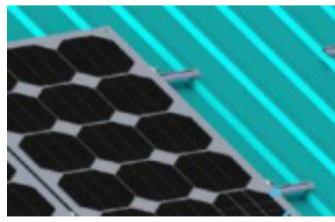
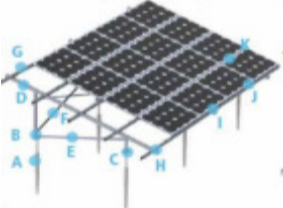

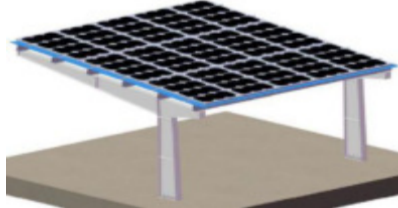
Verlängerungen

Produkt	Foto	Länge	Listenpreis Brutto/Stk.	Listenpreis Netto/Stk.
Verbinder 4.0mm² 55A AC0.6/1KV,DC1.0 /1.8KV IP67		2 Meter (pro Set)	€ 9,65	€ 8,04
		3 Meter (pro Set)	€ 12,45	€ 10,38
		5 Meter (pro Set)	€ 18,65	€ 15,54
Verbinder 6.0mm² 70A AC0.6/1KV,DC1.0 /1.8KV IP67		3 Meter (pro Set)	€ 15,50	€ 12,92




Einzelkomponenten

Stärke	Foto	Produkt	Listenpreis Brutto/Stk.	Listenpreis Netto/Stk.
4.0mm²		Solarkabel pro lfm 100m/roll, 4.0mm ² , 55A AC0.6/1KV,DC1.0/1.8KV IP67	€ 1,25	€ 1,04
6.0mm²		Solarkabel pro lfm 100/roll, 6.0mm ² , 70A AC0.6/1KV,DC1.0/1.8KV IP67	€ 1,75	€ 1,46
MC4 connector		Stecker pro Set (Buchse und Stecker)	€ 1,04	€ 0,87

Montagesystem *(ohne Montage)*

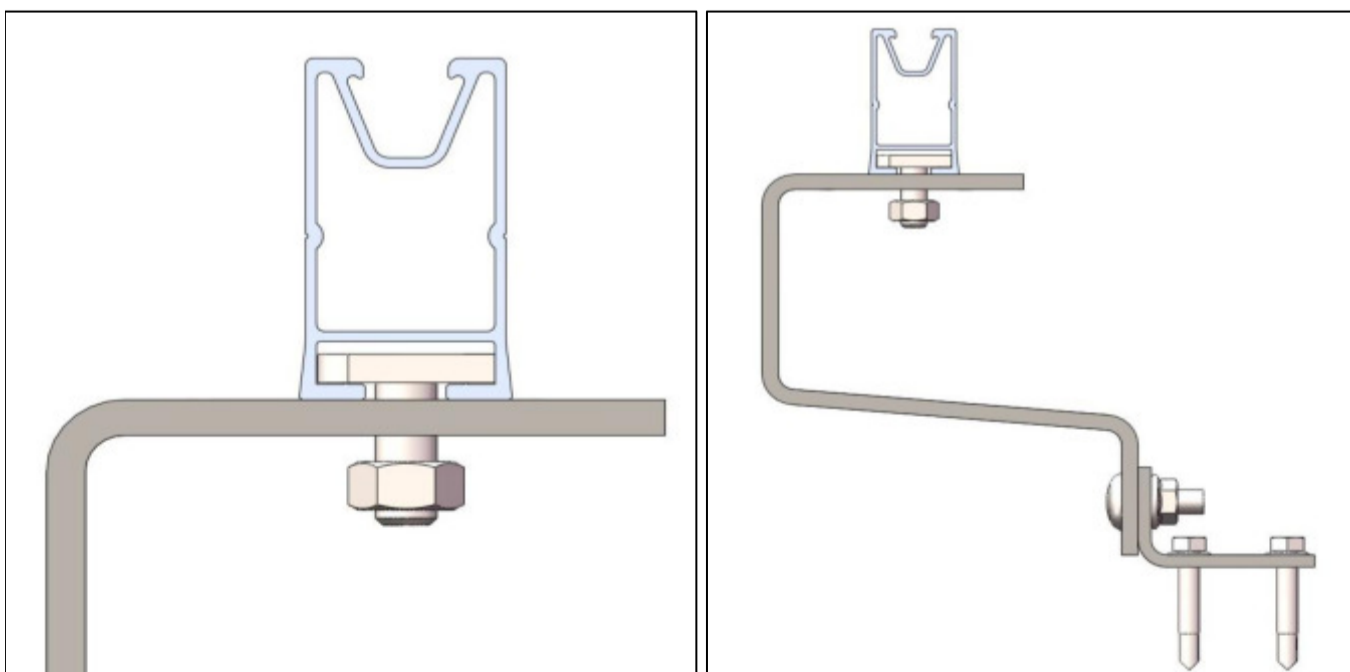
Systeme exklusive Solarmodule	Listenpreis Brutto/Stk.	Listenpreis Netto/Stk.
Modulhalterung Kunststoffkiste Flachdach 18 Grad Preis pro Stk. 	€ 99,00	€ 82,50
System RP-1 <i>gerade Südseite</i> 0 Grad Welleternit / Aluminium Dach ca. Preis pro Modul 	€ 93,15	€ 77,63
System TP-7 <i>Ost-West oder Süd Ausrichtung</i> 5, 10, 15 Grad ca. Preis pro Modul 	€ 93,15	€ 77,63
System RP-5 Systeme für Blechdach 0 Grad ca. Preis pro Modul 	€ 80,73	€ 67,28
System GL-2S Freiland Erdschrauben, 0-60 Grad vorbereitet für 440W Modul/Black ca. Preis pro Modul 	€ 320,85	€ 267,38
System GL-2S Freiland Fester Untergrund 0-60 Grad ca. Preis pro Modul 	€ 300,15	€ 250,13
System CL-3 Carport 0 - 20 Grad, verzinkter Stahl nur kombinierbar mit 700W Modul ca. Preis pro Modul 	€ 782,05	€ 651,71

Montage Material

Foto	Artikel	Artikelnummer	Listenpreis Brutto/Stk.	Listenpreis Netto/Stk.
	Fixing Clamp Kit inkl. Schraube und Beilagescheibe für 30 od. 35 mm	YS-FC-05Z	€ 1,01	€ 0,85
	End Clamp Kit inkl. Schraube und Beilagescheibe für 30 od. 35 mm	YS-EC1-35Z	€ 2,07	€ 1,73
	Mid Clamp Kit inkl. Schraube und Beilagescheibe für 30 od. 35 mm	YS-MC1-35Z	€ 2,07	€ 1,73

Giebeldachmontage *(ohne Montage)*

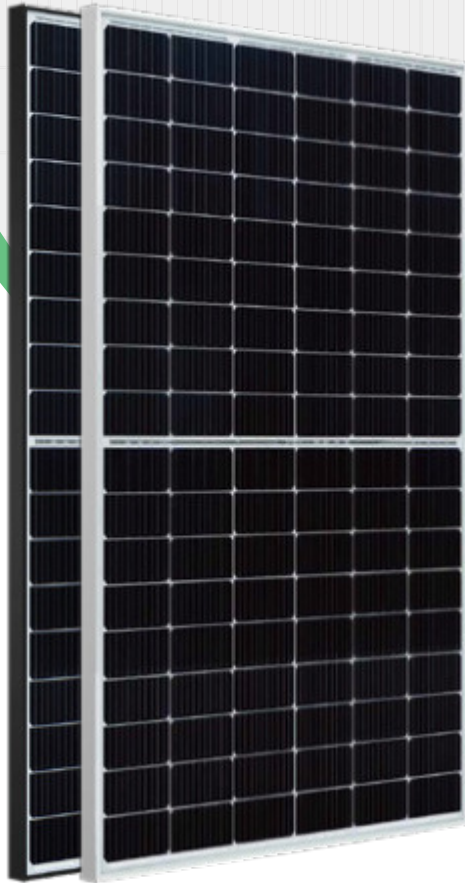
Artikel	Artikelnummer	Spec. Material	Listenpreis Brutto/Stk.	Listenpreis Netto/Stk.
Rail	FDA-97 	6000mm AL6005-T5	€ 102,49	€ 85,41
Rail Splice Kit	FDA-98-Z 	200mm AL6005-T5 +SUS410	€ 5,85	€ 4,88
Hook (3x Adjustable)	FDA-AH-49 	Plate: 140x50mm SUS304	€ 14,04	€ 11,70
Mid Clamp Kit	FDA-MC1-30J 	L=40mm H=30mm AL6005- T5+SUS304	€ 1,73	€ 1,44
End Clamp Kit	FDA-EC1-30J 	L=40mm H=30mm AL6005- T5+SUS304	€ 1,59	€ 1,33
T-bolt	FDA-T10-F25 	M10x25mm SUS304	€ 1,03	€ 0,86



Irrtümer, Druckfehler und Preisänderungen vorbehalten



Solar Module



182
HEX5
MONOFACIAL MODULE

BSM425G12-54HPH

405~425W

HALF CELL PERC

BLUESUN SOLAR CO.,LTD

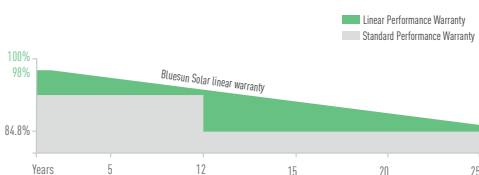
Bluesun, founded in 2004, as a superior photovoltaic manufacturer, is devoted to the R&D and the production of crystalline silicon solar cells and modules for 17 years. The company has its sales areas spread all over more than 100 countries and regions in the world, and the cumulative historical shipments exceeded 12 GW.

PERFORMANCE WARRANTY

12 Enhanced Product Warranty on Materials and Workmanship.

25 Linear Power Performance Warranty*

0.55% Annual Degradation Over 25 years no more than 0.55%



*According to the applicable Bluesun Solar Limited Warranty Statement.

MANAGEMENT SYSTEM CERTIFICATES

ISO 9001:2015 / Quality management system

ISO 14001:2015 / Standards for environmental

ISO 45001: 2018 / International standards for occupational health & safety

PRODUCT CERTIFICATES

IEC 61215 / IEC 61730 / CE / UL1703



THE IDEAL SOLUTION FOR:



Rooftop arrays on residential buildings



High module conversion efficiency

MBB Half Cell Technology, new circuit design, lower internal current, lower Rs loss



Withstanding harsh environment

Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline



PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control



Excellent weak light performance

More power output in weak light condition, such as cloudy, morning and sunset



Extended wind and snow load tests

Module certified to withstand extreme wind (2400 Pa) and snow loads (5400 Pa)

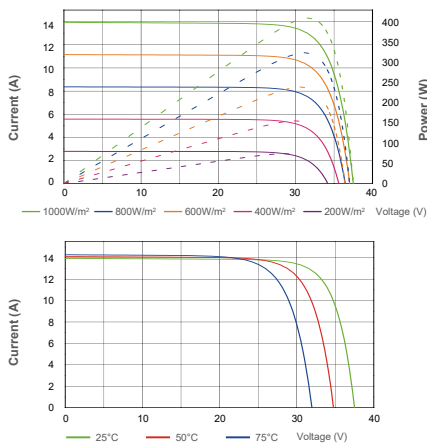
SPECIFICATIONS

Module Type	BSM405G12-54HPH		BSM410G12-54HPH		BSM415G12-54HPH		BSM420G12-54HPH		BSM425G12-54HPH	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	405	302	410	306	415	310	420	314	425	318
Operating Voltage (Vmp/V)	31.24	29.2	31.43	29.3	31.64	29.6	31.83	29.8	32.03	30.0
Operating Current (Imp/A)	12.97	10.36	13.05	10.42	13.13	10.48	13.21	10.54	13.29	10.60
Open-Circuit Voltage (Voc/V)	37.25	35.10	37.50	35.30	37.75	35.50	38.00	35.70	38.25	35.90
Short-Circuit Current (Isc/A)	13.86	11.17	13.94	11.24	14.02	11.30	14.10	11.36	14.18	11.42
Module Efficiency η (%)	20.7		21.0		21.3		21.5		21.7	

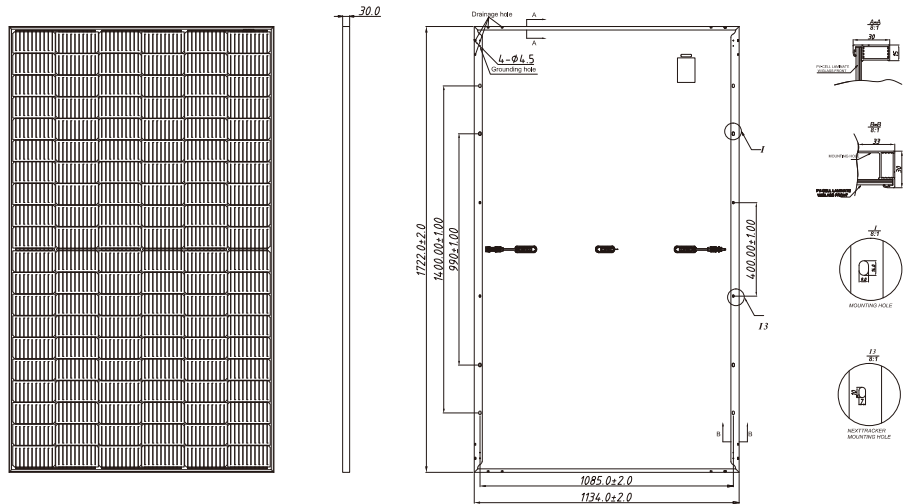
STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

I-V CURVE

BSM410G12-54HPH



ENGINEERING DRAWINGS



MECHANICAL SPECIFICATION

Cell Type	Monocrystalline
Cell Dimensions	182*182mm
Cell Arrangement	108 (6*18)
Weight	21.5kg
Module Dimensions	1722*1134*30mm
Cable Length	300mm or 1200mm
Cable Cross Section Size	TUV: 4mm ² (0.006inches ²)/UL: 12AWG
Front Glass	3.2mm (0.13inches) AR Coating Tempered Glass
No. of Bypass Diodes	3
Packing Configuration	36pcs/carton, 936pcs/40hq(EU),828pcs/40hq(USA)
Frame	Anodized Aluminium Alloy
Junction Box	IP68

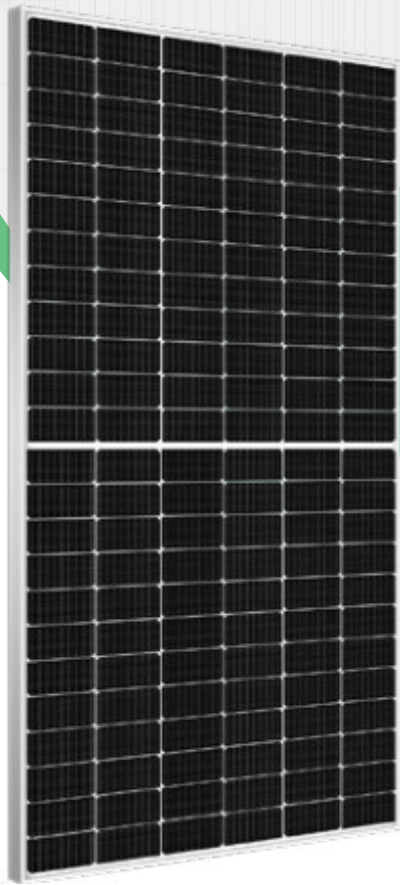
OPERATING CONDITIONS

Maximum System Voltage	1000V/1500V/DC(IEC)
Operating Temperature	-40°C~ +85°C
Maximum Series Fuse	25A
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector	T01/LJQ-3-CSY/MC4/MC4-EVO2

TEMPERATURE COEFFICIENT

Temperature Coefficient Pmax	-0.35%/°C
Temperature Coefficient Voc	-0.26%/°C
Temperature Coefficient Isc	+0.048%/°C
NMOT	43±2°C

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182
HEX5
MONOFACIAL

BSM560M10-72HPH

540~560W

HALF CELL PERC

BLUESUN SOLAR CO.,LTD

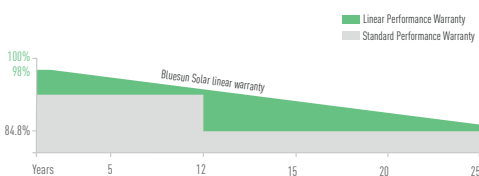
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PERFORMANCE WARRANTY

12 Enhanced Product Warranty on Materials and Workmanship.

25 Linear Power Performance Warranty*

0.55% Annual Degradation Over 25 years no more than 0.55%



*According to the applicable Bluesun Solar Limited Warranty Statement.

MANAGEMENT SYSTEM CERTIFICATES

ISO 9001:2015 / Quality management system

ISO 14001:2015 / Standards for environmental

ISO 45001: 2018 / International standards for occupational health & safety

PRODUCT CERTIFICATES

IEC 61215 / IEC 61730 / TÜV



THE IDEAL SOLUTION FOR:

 Rooftop arrays on residential buildings

 Ground-mounted solar power plants



High module conversion efficiency

MBB Half Cell Technology, Module efficiency up to 21.68%



Withstanding harsh environment

Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline



PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control



Excellent weak light performance

More power output in weak light condition, such as cloudy, morning and sunset



Extended wind and snow load tests

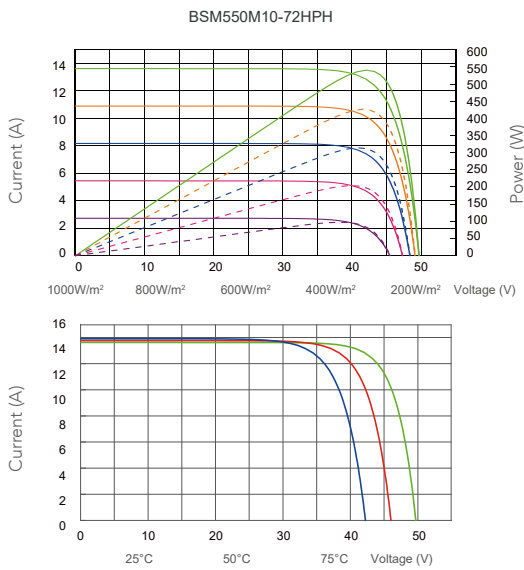
Module certified to withstand extreme wind (2400 Pa) and snow loads (5400 Pa)

SPECIFICATIONS

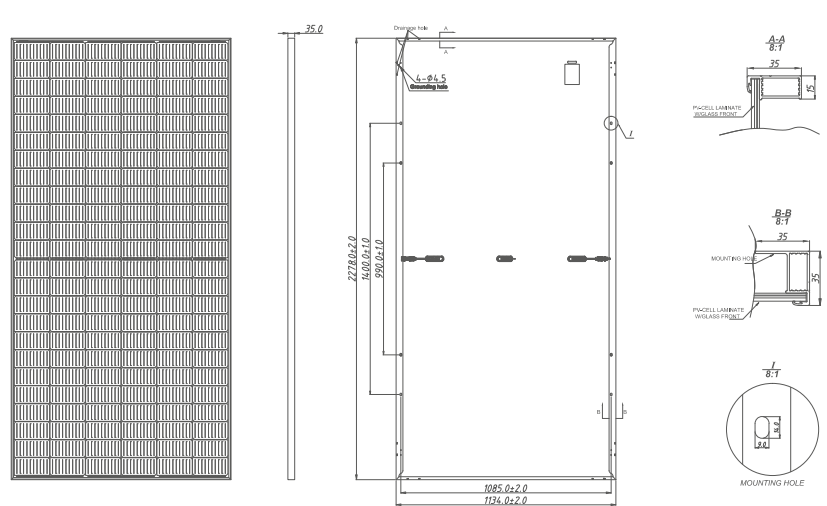
Module Type	BSM540M10-72HPH		BSM545M10-72HPH		BSM550M10-72HPH		BSM555M10-72HPH		BSM560M10-72HPH	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (P _{max} /W)	540	402	545	406	550	410	555	413	560	416
Operating Voltage (V _{mp} /V)	41.96	38.29	42.06	38.35	42.16	38.43	42.24	38.52	42.33	38.59
Operating Current (I _{mp} /A)	12.87	10.50	12.96	10.58	13.05	10.66	13.14	10.73	13.23	10.80
Open-Circuit Voltage (V _{oc} /V)	49.60	46.12	49.70	46.21	49.80	46.31	49.90	46.40	50.00	46.49
Short-Circuit Current (I _{sc} /A)	13.74	11.10	13.84	11.18	13.94	11.27	14.04	11.34	14.14	11.42
Module Efficiency η _m (%)	20.90		21.10		21.30		21.49		21.68	

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

I-V CURVE



ENGINEERING DRAWINGS



MECHANICAL SPECIFICATION

Cell Type	Monocrystalline
Cell Dimensions	182*91mm
Cell Arrangement	144 (6*24)
Weight	28.6kg
Module Dimensions	2278*1134*35mm
Cable Length	Portrait 300mm/Landscape 1200mm/Customized
Cable Cross Section Size	TUV: 4mm ² (0.006inches ²)/UL: 12AWG
Front Glass	3.2mm (0.13inches) AR Coating Tempered Glass
No. of Bypass Diodes	3
Packing Configuration	31pcs/carton, 620pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

OPERATING CONDITIONS

Maximum System Voltage	1000/1500V/DC(IEC)
Operating Temperature	-40°C~ +85°C
Maximum Series Fuse	25A
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector	T01/LJQ-3-CSY/MC4/MC4-EVO2

TEMPERATURE COEFFICIENT

Temperature Coefficient P _{max}	-0.36%/°C
Temperature Coefficient V _{oc}	-0.29%/°C
Temperature Coefficient I _{sc}	+0.048%/°C
NMOT	45±2°C

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BLACK
MONOFACIAL MODULE

BSM440PMB7-46SC

420~440W

SHINGLED PERC

BLUESUN SOLAR CO.,LTD

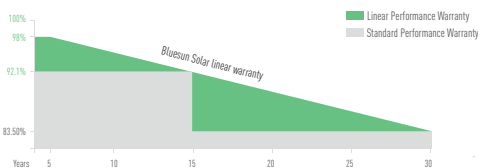
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PERFORMANCE WARRANTY

15 Enhanced Product Warranty on Materials and Workmanship.

30 Linear Power Performance Warranty*

0.55 Annual Degradation Over 30 years no more than 0.55%



*According to the applicable Bluesun Solar Limited Warranty Statement.

MANAGEMENT SYSTEM CERTIFICATES

ISO 9001:2015 / Quality management system

ISO 14001:2015 / Standards for environmental

ISO 45001: 2018 / International standards for occupational health & safety

PRODUCT CERTIFICATES

IEC 61215 / IEC 61730 / CE



THE IDEAL SOLUTION FOR:



Rooftop arrays on residential buildings



Shingled Technology

Innovative structure, low -temperature adhesive bonding, high-density layout



Beautiful Appearance

Deep black, uniform layout, better aesthetic



Compact Design

Upto 440Wp output within 2m², perfect for residential rooftop



Low System Cost

High module efficiency, reducing system cost



Low Shading Loss

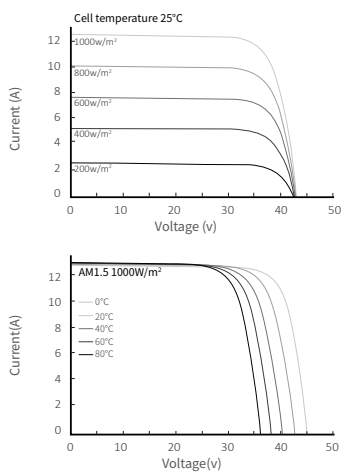
Full parallel arrangement brings high effective power generation hours

SPECIFICATIONS

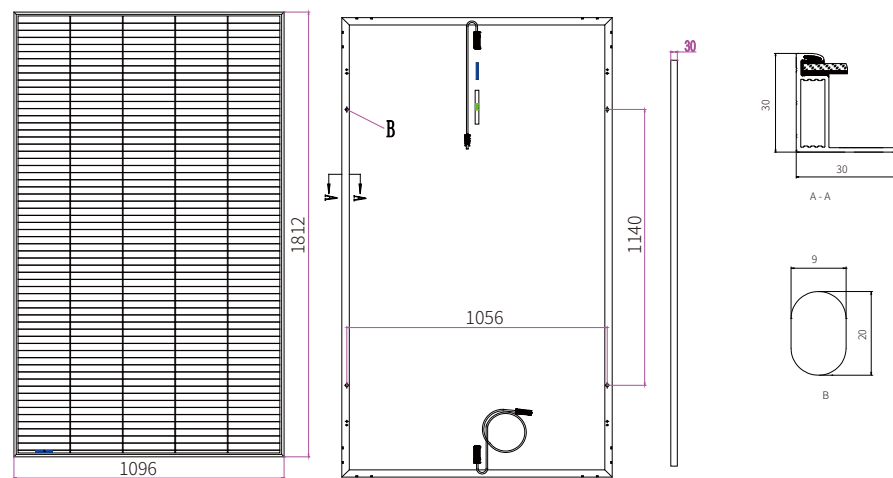
Module Type	BSM420PMB7-46SC		BSM425PMB7-46SC		BSM430PMB7-46SC		BSM435PMB7-46SC		BSM440PMB7-46SC	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	420	316	425	320	430	324	435	328	440	332
Operating Voltage (Vmp/V)	34.5	32.9	34.6	33.0	34.7	33.1	34.8	33.2	34.9	33.3
Operating Current (Imp/A)	12.19	9.62	12.30	9.70	12.39	9.79	12.50	9.88	12.60	9.97
Open-Circuit Voltage (Voc/V)	41.6	39.7	41.7	39.8	41.8	39.9	41.9	40.0	42.0	40.1
Short-Circuit Current (Isc/A)	12.92	10.41	13.03	10.50	13.14	10.60	13.26	10.71	13.37	10.82
Module Efficiency η (%)	21.1		21.4		21.7		21.9		22.2	

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

I-V CURVE



ENGINEERING DRAWINGS



MECHANICAL SPECIFICATION

Cell Type	Mono-crystalline solar cell
Weight	21.2kg
Module Dimensions	1812*1096*30mm
Cable Length	+300mm/-1000(Vertical) +220mm/-180mm(Horizontal)
Cable Cross Section Size	TUV: 4mm ² (0.006inches ²)/UL: 12AWG
Front Glass	3.2mm (0.13inches) AR Coating Tempered Glass
No. of Bypass Diodes	2
Packing Configuration	36pcs/carton, 924pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

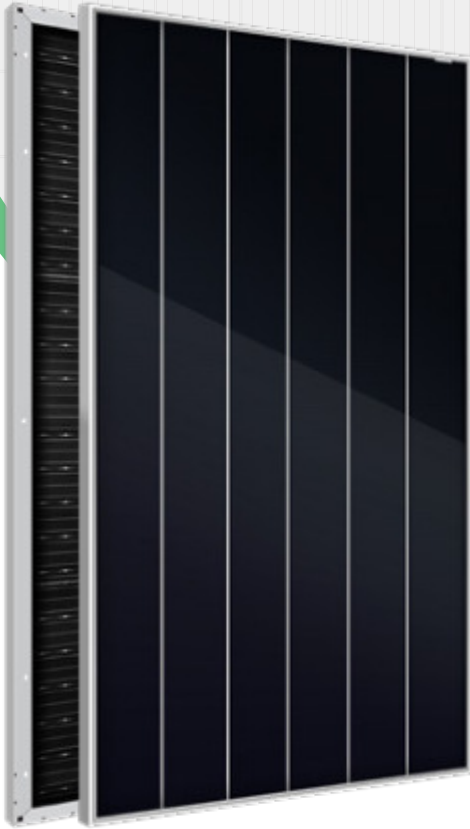
OPERATING CONDITIONS

Maximun System Voltage	1500/1000V DC(IEC)
Operating Temperature	-40°C~ +85°C
Maximun Series Fuse	25A
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector	T01/LJQ-3-CSY/MC4/MC4-EVO2

TEMPERATURE COEFFICIENT

Temperature Coefficient Pmax	-0.34%/°C
Temperature Coefficient Voc	-0.27%/°C
Temperature Coefficient Isc	+0.04%/°C
NMOT	42.3±2°C

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QVA **ULTRA**
BIFACIAL MODULE

BSM700PMB6-70SDC

675~700W

SHINGLED PERC

BIFACIAL

210 cell

N-Type

HJT

BLUESUN SOLAR CO.,LTD

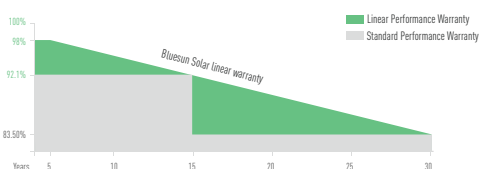
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PERFORMANCE WARRANTY

15 Enhanced Product Warranty on Materials and Workmanship.

30 Linear Power Performance Warranty*

0.45% Annual Degradation Over 30 years no more than 0.45%



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MANAGEMENT SYSTEM CERTIFICATES

ISO 9001:2015 / Quality management system

ISO 14001:2015 / Standards for environmental

ISO 45001: 2018 / International standards for occupational health & safety

PRODUCT CERTIFICATES

IEC 61215 / IEC 61730 / CE



THE IDEAL SOLUTION FOR:



Ground-mounted solar power plants



Shingled Technology

Innovative structure, low -temperature adhesive bonding, high-density layout



Beautiful Appearance

Uniform layout, better aesthetic



Superior safety and Reliability

No hidden welding crack, low operating temperature, high pressure resistance



Low System Cost

High module efficiency, reducing system cost



Low Shading Loss

Full parallel arrangement brings high effective power generation hours

SPECIFICATIONS

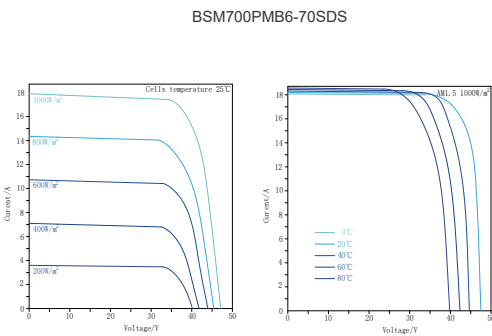
Module Type	BSM675PMB6-70SDC		BSM680PMB6-70SDC		BSM685PMB6-70SDC		BSM690PMB6-70SDC		BSM695PMB6-70SDC		BSM700PMB6-70SDC	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (P _{max} /W)	675	508	680	512	685	516	690	520	695	524	700	527
Operating Voltage (V _{mp} /V)	39.20	37.40	39.30	37.50	39.40	37.60	39.50	37.70	39.60	37.80	39.60	37.80
Operating Current (I _{mp} /A)	17.23	13.62	17.32	13.70	17.41	13.78	17.49	13.86	17.57	13.94	17.68	14.22
Open-Circuit Voltage (V _{oc} /V)	47.20	45.00	47.30	45.10	47.40	45.20	47.50	45.30	47.60	45.40	47.70	45.50
Short-Circuit Current (I _{sc} /A)	18.32	14.77	18.41	14.85	18.50	14.93	18.59	15.01	18.68	15.09	18.80	14.69
Module Efficiency η _m (%)	21.90		22.10		22.30		22.50		22.60		22.81	

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

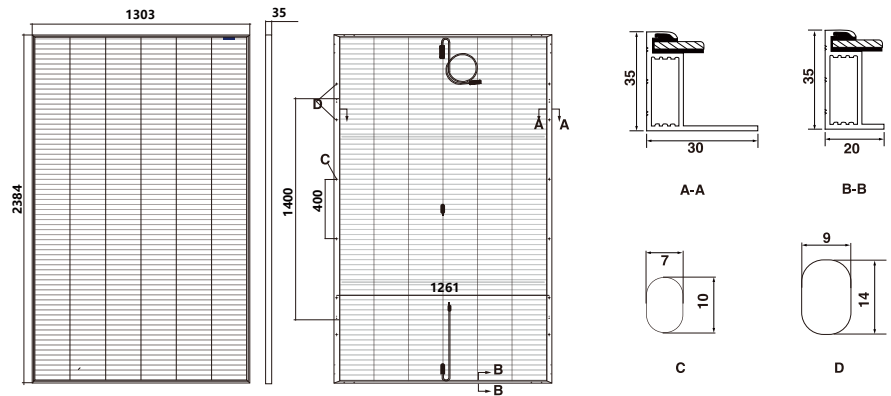
Electrical characteristics with different rear side power gain (refer to 700W front)

P _{max} gain	P _{max} /W	V _{mpp} /V	I _{mp} /A	V _{oc} /V	I _{sc} /A
5%	735	39.6	18.56	47.7	19.74
10%	770	39.6	19.45	47.7	20.68
15%	805	39.6	20.33	47.7	21.62
20%	840	39.6	21.22	47.8	22.56
25%	875	39.6	22.10	47.8	23.50

I-V CURVE



ENGINEERING DRAWINGS



MECHANICAL SPECIFICATION

Cell Type	N-Type Monocrystalline
Cell Dimensions	210*210mm
Weight	39.0kg
Module Dimensions	2384*1303*35mm
Cable Length	Portrait 300mm/Landscape 1200mm/Customized
Cable Cross Section Size	TUV: 4mm ² (0.006inches ²)/UL: 12AWG
Front Glass	2.0 mm (0.08 inches) AR Coating Tempered Glass
Back Glass	2.0mm (0.08 inches) Glazed Semi-tempered Glass
No. of Bypass Diodes	3
Packing Configuration	31pcs/carton, 558pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

OPERATING CONDITIONS

Maximum System Voltage	1500V/DC(IEC)
Operating Temperature	-40°C~ +85°C
Maximum Series Fuse	30A
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector	T01/LJQ-3-CSY/MC4/MC4-EVO2
Backside Output Ratio*	70%±5%

*Under STC: Backside Output Ratio= P_{max(rear)} / P_{max(front)}

TEMPERATURE COEFFICIENT

Temperature Coefficient P _{max}	-0.35%/°C
Temperature Coefficient V _{oc}	-0.26%/°C
Temperature Coefficient I _{sc}	+0.048%/°C
NMOT	43±2°C

*Data contained in these specifications is subject to change without notice. Bluesun Solar reserves the right to final interpretation of content.



Montagesysteme

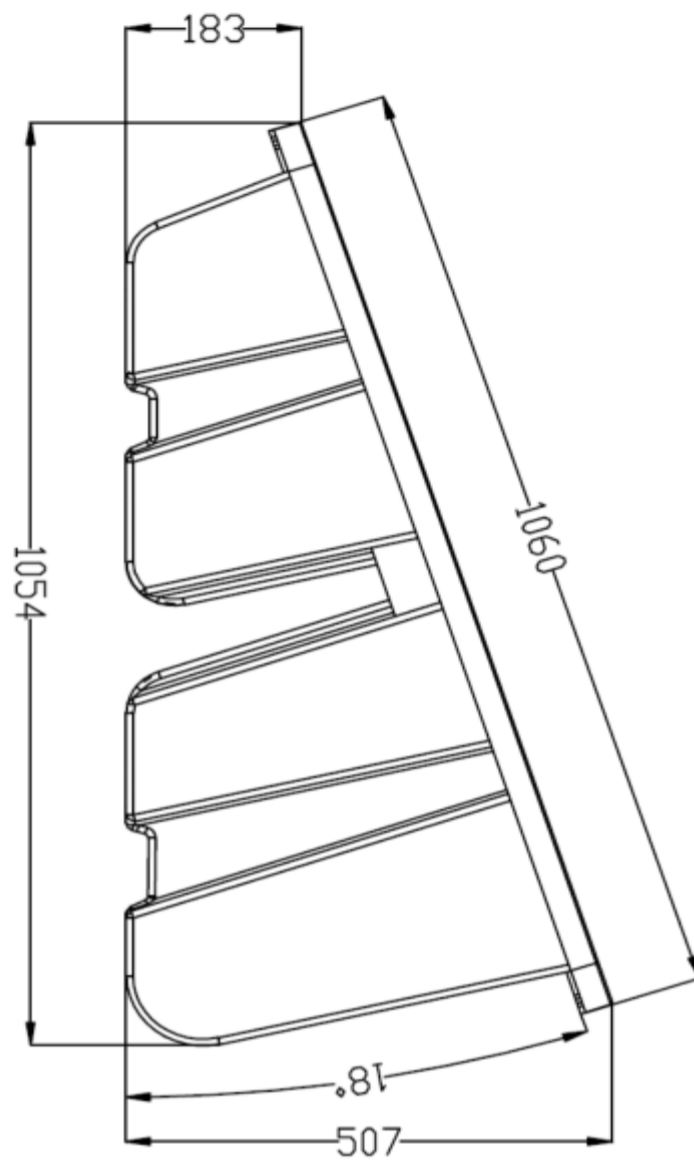
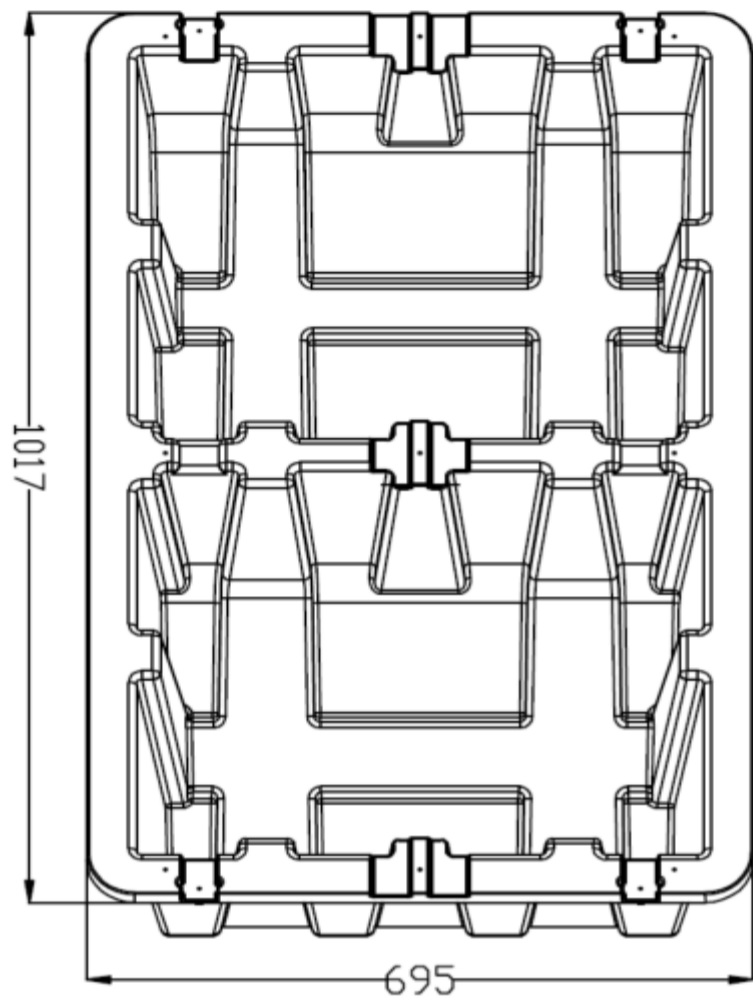
exklusive Module

Panelhalterung

Flachdach

Material Kunststoff

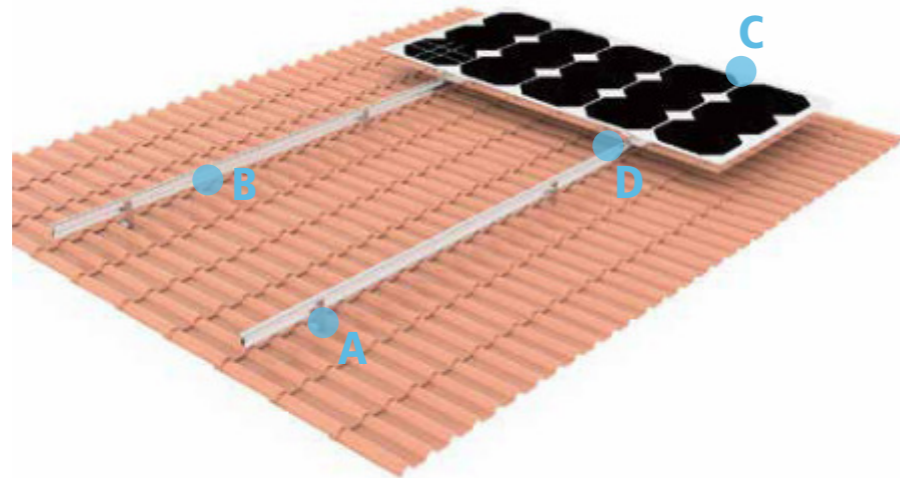
CE Zertifiziert



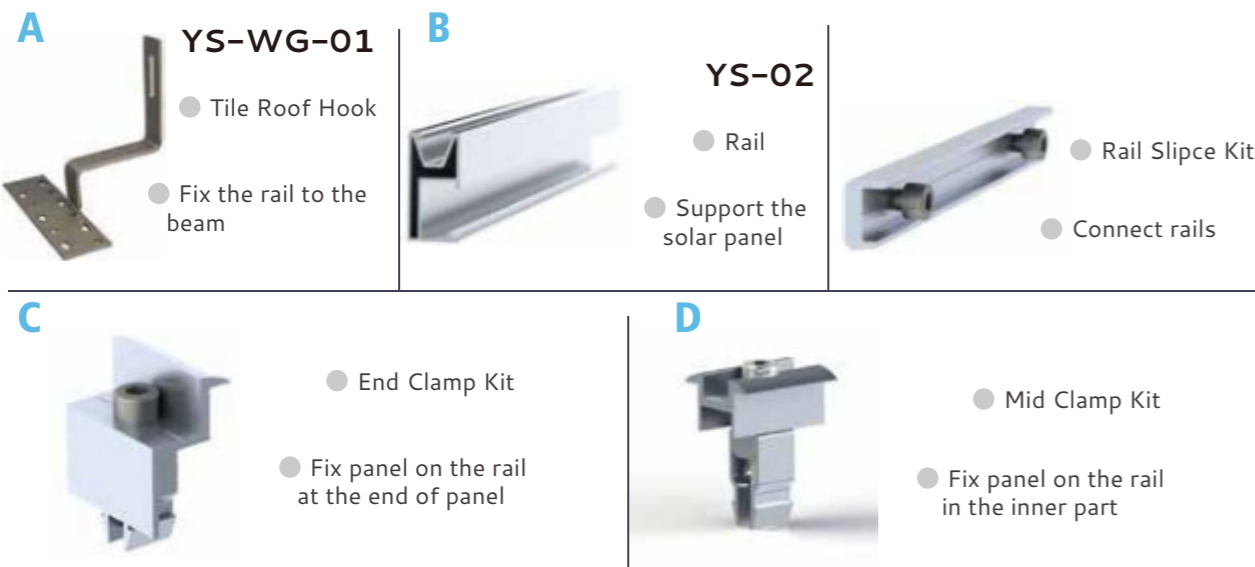


RP-1 Pitched Tile Roof Mounting

RP-1 Pitched Tile Roof Mounting is suitable for installing framed and frameless modules on the pitched roof with high strength and excellent stability. Different hooks are compatible with various tile roofs.



COMPONENTS PARTS



BRIEF INTRODUCTION

- Install Site: Pitched Tile Roof
- Material: AL 6005-T5 & Stainless Steel 304
- Max. Wind Speed: 60m/s
- Warranty: 12 years warranty; 25 years service life
- Snow Load: 1,4KN/m²

Tile Hook Types



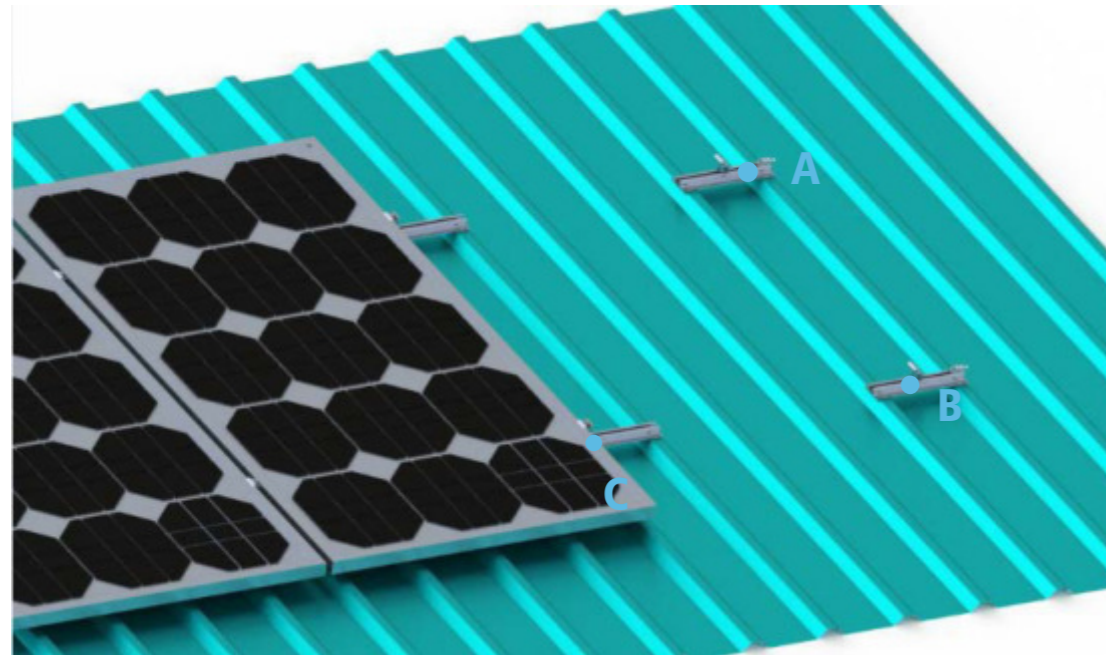
PROJECT SOLUTION

BOM List for a project with 500W:

ITEMS	DESC.	QTY.
Solar Panel	1640*992*40mm	2pcs.
Rail	L=2104mm	2pcs.
Hook		6pcs.
MidClamp	L=40mm	2pcs.
End Clamp	L=40mm	4pcs.
Grounding Washer	L=40mm	2pcs.
Grounding Lug	L=16mm	2pcs.
Cable		acc. to demand

RP-5 Trapezoidal Roof Mounting

RP-5 The panels are fixed on trapezoidal roof sheet with short rail and clamps directly. The clever design ensures minimal installation time. The higher rail improves the heat dissipation and makes it be suitable for tropical zone.



BRIEF INTRODUCTION

- Install Site: Trapezoidal Roof (Both available for Landscape & Potrait)
- Snow Load: **1,4**KN/m²
- Max. Wind Speed: **60**m/s
- The length of "a" should be more than 20mm
- Material: AL 6005-T5 & Stainless Steel 304
- Warranty: **12** years warranty; **25** years service life
- The short rails will be installed on the trapezoidal part "a" of the roof
- Fixing: The short rails will be fixed on roof with 4 pcs self-tapping screws

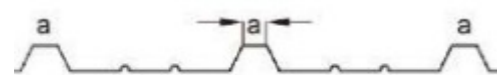
PROJECT SOLUTION

BOM List for a project with 1500W:

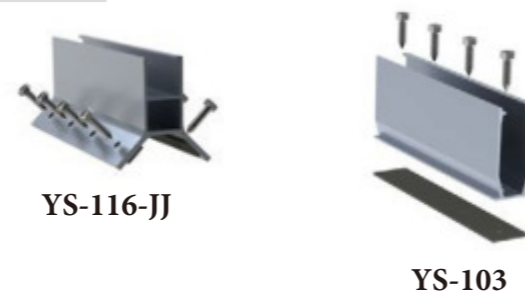
ITEMS	DESC.	QTY.
Solar Panel	1640*992*40mm	6pcs.
Short Rail	L=280mm	16pcs.
MidClamp	L=40mm	8pcs.
End Clamp	L=40mm	8pcs.
Cable		acc. to demand

Application Roof

a > 20mm



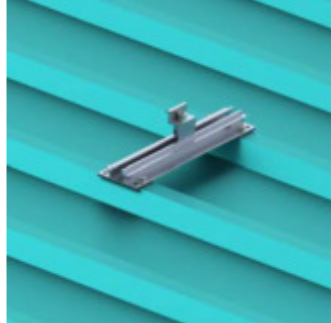
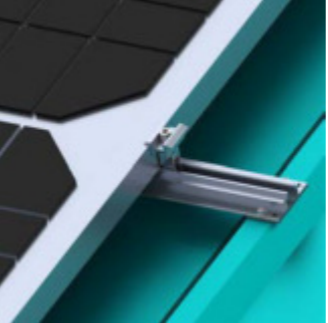
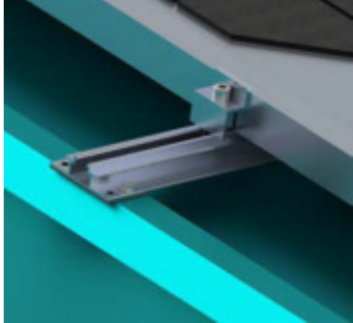
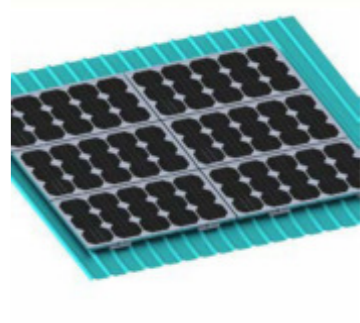
OPTIONAL SHORT RAIL KIT



COMPONENTS PARTS

<p>A YS-150</p>  <ul style="list-style-type: none"> ● Short Rail Kit ● Support panels 	<p>B</p>  <ul style="list-style-type: none"> ● End Clamp Kit ● Fix panel on the rail at the end of panel 	<p>C</p>  <ul style="list-style-type: none"> ● Mid Clamp Kit ● Fix panel on the rail in the inner part
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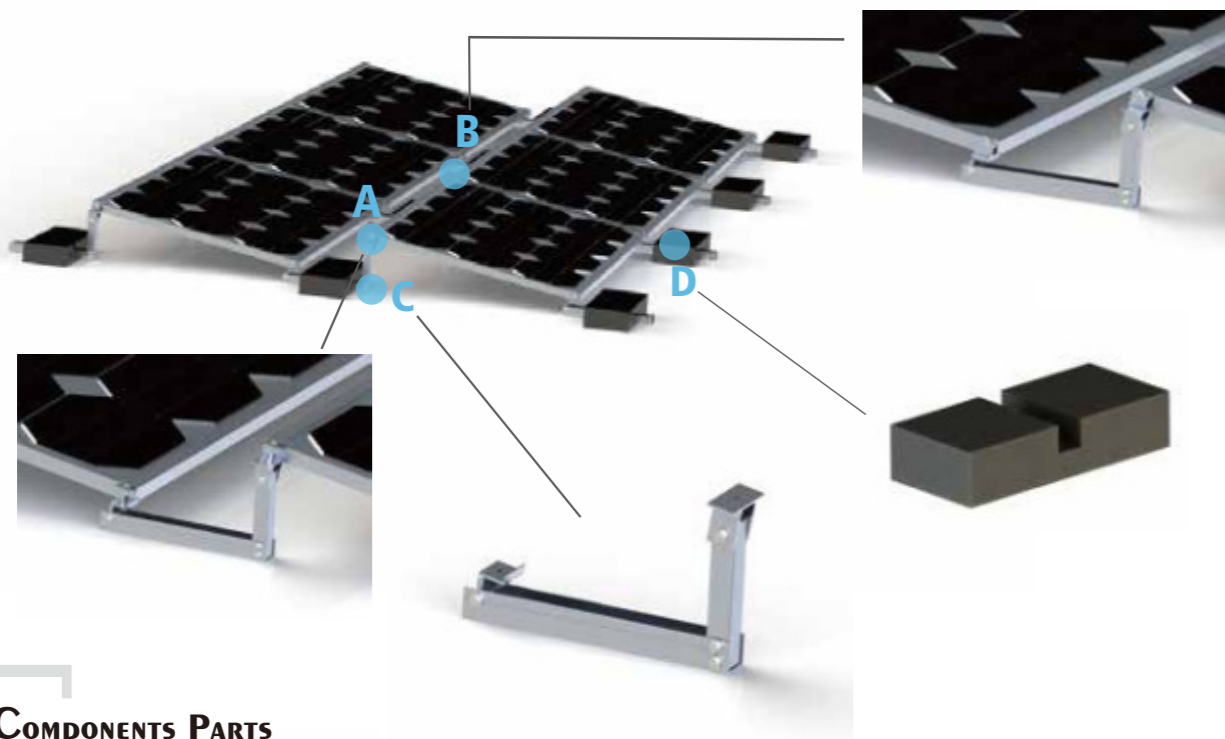
BRIEF INSTALLATION GUIDE

 <p>1. Fix rail to the roof sheet with self-tapping screws</p>	 <p>2. Put the panels onto the rails</p>	 <p>3. Fix the panels with clamps</p>	 <p>4. Fix all the panels and clamps and then installation will be finished</p>
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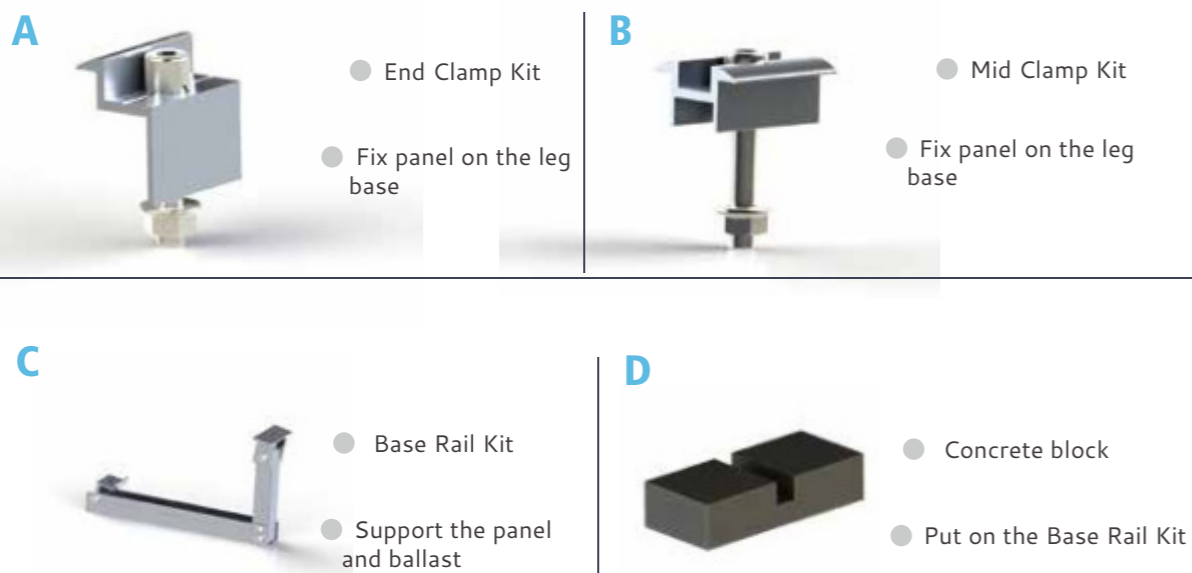


TP-7 FLAT ROOF BALLAST SYSTEM

TP-7 is the south-oriented racking solution for mounting framed modules on flat roofs with 5°, 10° and 15° mounting tilts. The simply design saves time and reduces labor cost.



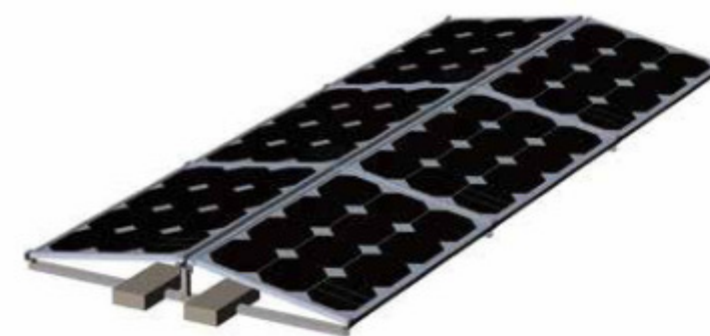
COMPONENTS PARTS



BRIEF INTRODUCTION

- Install Site: Flat Roof
- Tilt Degree: 5°, 10°, 15°
- Snow Load: **1,4**KN/m²
- Max. Wind Speed: **60**m/s
- Material: AL 6005-T5 & Stainless Steel 304
- Warranty: **12** years warranty; **25** years service life

EAST/WEST-ORIENTED SOLUTION

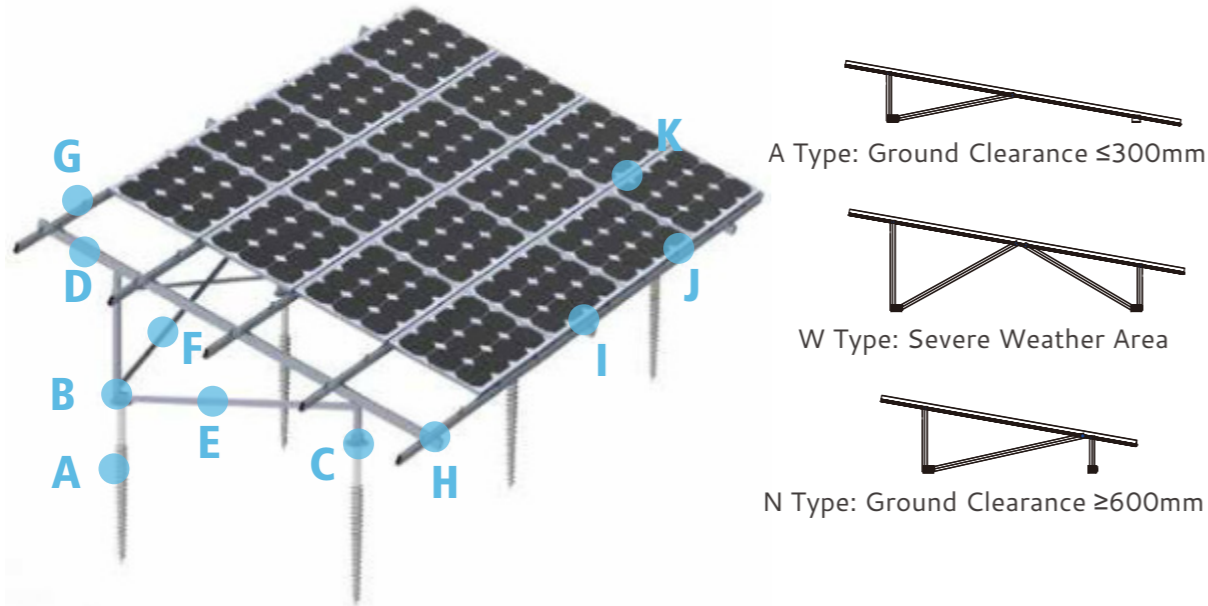


BRIEF INSTALLATION GUIDE



GL-2S Ground Screw Mounting

GL-2S Ground Screw Mounting system designed to provide an economical and practical mounting solution for large-scale open areas. Available for both framed and frameless modules. Compatible with screwing machine on the open area easily.

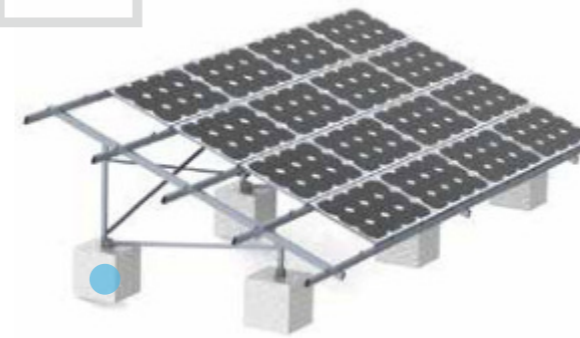


PROJECT SOLUTION

BOM List for a project with 5000W:

ITEMS	DESC.	QTY.
Solar Panel	1640*992*40mm	20pcs.
Support Rack		3pcs.
Ground Screw		6pcs.
Rail	L=4170mm	10pcs.
Rail Splice	L=200mm	5pcs.
MidClamp	L=40mm	30pcs.
End Clamp	L=40mm	20pcs.
Fixing Clamp	L=40mm	30pcs.
Front Base		3pcs.
Rear Base		3pcs.
Fixing Component		4pcs.
Diagonal Brace		3pcs.
Grounding Washer	L=30mm	30pcs.
Grounding Lug	L=16mm	5pcs.

FOUNDATION Type



The Ground Screws can be replaced by Concrete Block with Anchor Bolt.

BRIEF INTRODUCTION

- Install Site: Open Field/Ground
- Max. Wind Speed: 60m/s
- Material: AL 6005-T5
- Module Angle: 0-60°
- Snow Load: 1,4KN/m2
- Color: Natural
- Warranty: 12 years warranty; 25 years service life

COMPONENTS PARTS

<p>A</p> <ul style="list-style-type: none"> ● Ground Screw ● Fix the base on the ground 	<p>B</p> <p>YS-11</p> <ul style="list-style-type: none"> ● Leg Base ● Fix rear leg on ground screw 	<p>C</p> <p>YS-11</p> <ul style="list-style-type: none"> ● Leg Base ● Fix front leg on ground screw
<p>D</p> <ul style="list-style-type: none"> ● Support Rack ● Support the rail and solar panel 	<p>E</p> <p>YS-08</p> <ul style="list-style-type: none"> ● Diagonal Brace ● Connect the front and rear leg 	<p>F</p> <p>YS-17</p> <ul style="list-style-type: none"> ● Triangle fixing component ● Connect rear legs
<p>G</p> <p>YS-15</p> <ul style="list-style-type: none"> ● Rail ● Support the solar panel 	<p>H</p> <ul style="list-style-type: none"> ● Fixing Clamp Kit ● Fix the rail to the support rack 	<p>I</p> <ul style="list-style-type: none"> ● Rail Splice Kit ● Connect rails
<p>J</p> <ul style="list-style-type: none"> ● End Clamp Kit ● Fix panel on the rail at the end of panel 	<p>K</p> <ul style="list-style-type: none"> ● Mid Clamp Kit ● Fix panel on the rail in the inner part 	



GP-3C HDG STEEL GROUND MOUNT

HDG Steel Ground Mount creates an economical solution and is also very solid, reliable for a large array PV system in open terrain. It uses galvanized steel as legs, beams and rails. It is also compatible with ground screws, optimizing it for different terrains.



BRIEF INTRODUCTION

- Install Site: Open Field/Ground
- Max. Wind Speed: 60m/s
- Module Angle: 0° -60°
- Warranty: 12 years warranty
- Material: Q235 Hot Galvanizing
- Snow Load: 1,4KN/m²
- Color: Natural or Customized

BRIEF INSTALLATION GUIDE



1. Connect and fix front/rear leg to the concrete base



2. Stretch the preassembled support racks, fix it to the leg bases

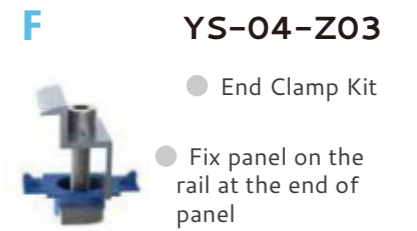
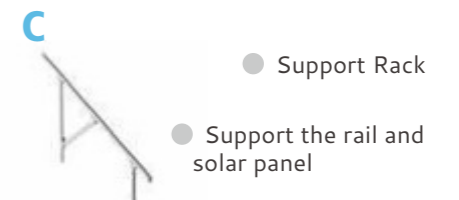


3. Make sure the height of all the support rack kits reach a complete unity

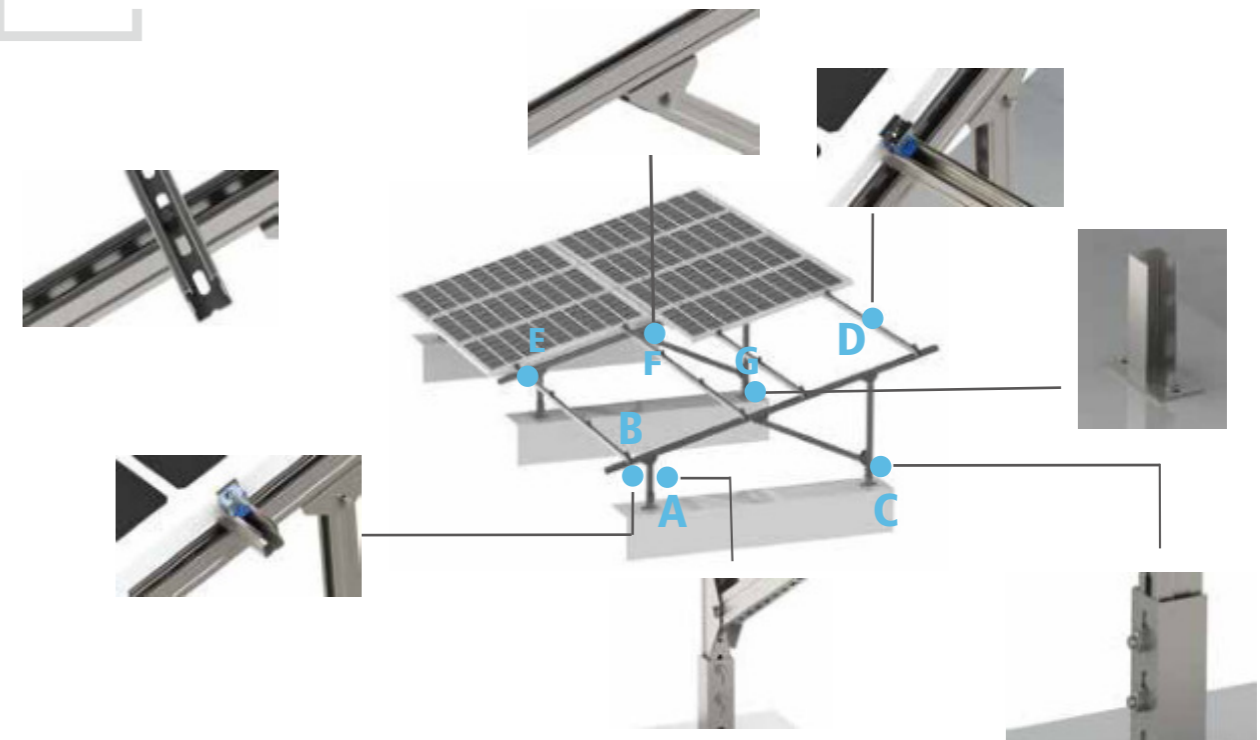


4. Put the rail on the rack and fix the panel by end clamp and mid clamp

COMPONENTS PARTS



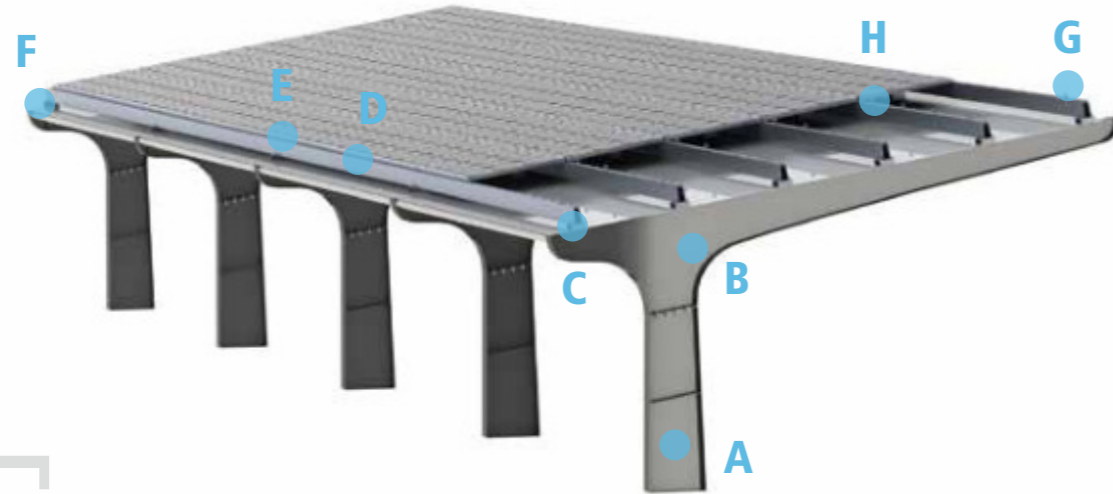
INSTALLATION DETAILS





CL-3 Single T-FRAME SOLAR CARPORT

CL-3 Single T-Frame Solar Carport Mounting, standard installations maintain 4000mm maximum clearance. No field welding, drilling or other on-site fabrication needed.



COMPONENTS PARTS

<p>A</p>  <ul style="list-style-type: none"> ● Support Post/Leg ● Support the support rack 	<p>B</p>  <ul style="list-style-type: none"> ● Support Rack ● Support the roof
<p>C</p>  <ul style="list-style-type: none"> ● Square Tube ● Fix the rails on support racks 	<p>D</p>  <ul style="list-style-type: none"> ● Rail ● Support the solar panels
<p>E</p>  <ul style="list-style-type: none"> ● Rail Splice ● Connect the rails 	<p>F</p>  <ul style="list-style-type: none"> ● Fixing Clamp Kit ● Fix the rails on square tubes
<p>G</p>  <ul style="list-style-type: none"> ● End Clamp Kit ● Fix panel on the rail at the end of panel 	<p>H</p>  <ul style="list-style-type: none"> ● Mid Clamp Kit ● Fix panel on the rail in the inner part

BRIEF INTRODUCTION

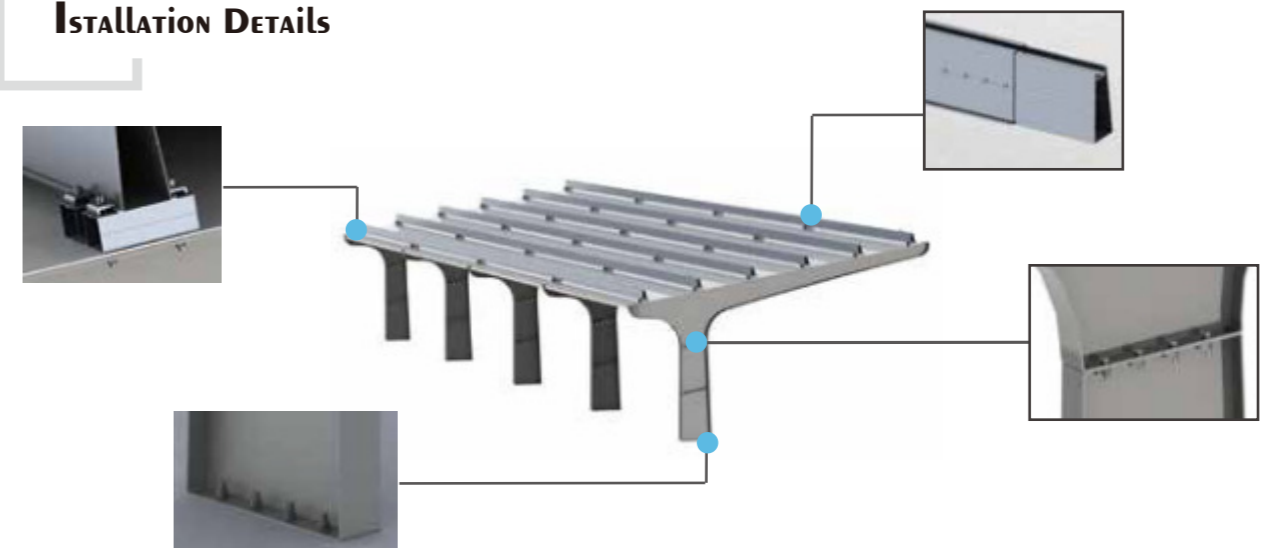
- Install Site: Open Field/Ground
- Max. Ground Clearance: ≤ 4000 mm
- Material: AL 6005-T5 & Carbon Steel
- Warranty: 12 years warranty
- Max. Wind Speed: 60m/s
- Module Angle: 0-20°
- Color: Natural or customized
- Snow Load: 1,4KN/m²

PROJECT SOLUTION

BOM List for a project with 15KW:

ITEMS	DESC.	QTY.
Solar Panel	1640*992*40mm	60pcs.
Support Rack		5pcs.
Support Post/Leg		5pcs.
Rail	L=5073mm	24pcs.
Rail Splice	L=400mm	18pcs.
MidClamp	L=40mm	96pcs.
End Clamp	L=40mm	48pcs.
Fixing Clamp	L=40mm	60pcs.
Square Tube		30pcs.

INSTALLATION DETAILS





GROUND SCREW

Our Ground Screw is made of Q235 material. It is anti-corrosion with hot dip galvanization and compatible with screwing machine on the open area easy. The length and size can be customized.



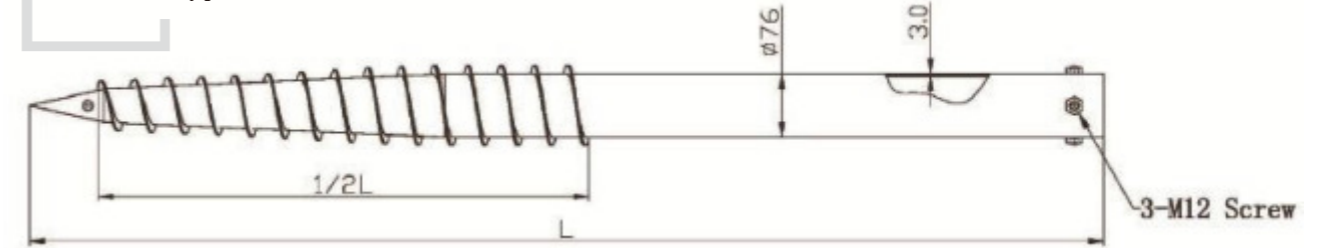
BRIEF INTRODUCTION

- Install Site: All types of Soil
- Pipe Diameters: **50-140mm**
- Pipe Length: **1000-3500mm**
- Warranty: **5** years limited Finish warranty; **25** years service life
- Pipe Material: Q235
- Pipe Thickness: **2-4mm**
- Surface: Hot dip galvanization

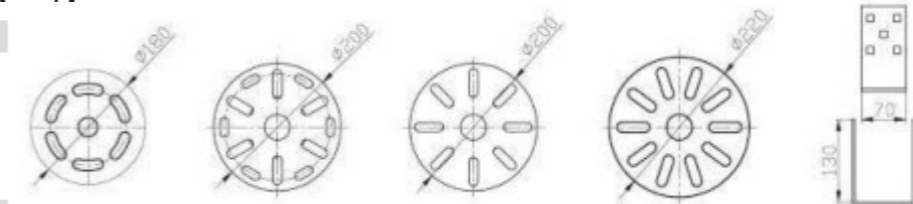
GROUND SCREW



Tube Type



FLANGE Type



SPECIFICATION

NO.	Item NO.	Material	Surface	Galvanized surface	D(mm)	T(mm)	H(mm)
A	N76*L	Q235	Hot Galvanized	≥ 80μm	76	2-4mm	Customized
B	F76*L-U			≥ 80μm	76		
C	F76*L-A			≥ 80μm	76		
D	F76*L			≥ 80μm	76		
E	F76*L-2			≥ 80μm	76		
F	F76*L-4			≥ 80μm	76		

ADVANTAGES

- **Easy Installation, Removal and Relocation:**
It is effective and cost-savings as available for installation machines. It can be installed, removed and relocated than other foundation solutions easier and faster.
- **Steady and Safety:**
Many kinds of types can be selected comply with the static load analysis and test to make sure the foundation is safe.
- **Widely Application:**
Different heads of screw piles will be adapted to meet the various needs of different customers.
- **Environmentally Friendly:**
The surrounding areas will not be spoiled because no need of concrete base and without performing land preparation works during the insertion.



**Montagesysteme
Einzelteile**

Rails

YS-02



ITEM NO.	YS-02	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	0.767kg/m
SPEC.	1000~6500mm		

YS-97



ITEM NO.	YS-97	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	0.764kg/m
SPEC.	1000~6500mm		

YS-147



ITEM NO.	YS-147	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	0.686kg/m
SPEC.	1000~6500mm		

YS-26



ITEM NO.	YS-26	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	2.448kg/m
SPEC.	1000~6500mm		

YS-15



ITEM NO.	YS-15	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	1.428kg/m
SPEC.	1000~6500mm		

YS-19



ITEM NO.	YS-19	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	1.434kg/m
SPEC.	1000~6500mm		

FRAMED panel clamps

YS-04



ITEM NO.	YS-04 End Clamp	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	
SPEC.	L=40mm, H=35~50mm		

YS-21



ITEM NO.	YS-21 Mid Clamp	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	0.594kg/m
SPEC.	L=40mm, H=40mm		

YS-01



ITEM NO.	YS-01 Rail Block	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	0.446kg/m
SPEC.	16mm		

Thin film solar clamps

YS-39



ITEM NO.	YS-39	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	0.0795kg/pc.
SPEC.	L=80mm		

YS-40



ITEM NO.	YS-40	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	0.055kg/pc.
SPEC.	L=80mm		

Tile hooks

YS-WG-01



ITEM NO.	YS-WG-01	MATERIAL	SUS 304
SURFACE	Sandblasted	WEIGHT	0.505kg/pc.
DESC.			

YS-WG-02



ITEM NO.	YS-WG-02	MATERIAL	SUS 304
SURFACE	Sandblasted	WEIGHT	0.430kg/pc.
SPEC.			

YS-WG-03



ITEM NO.	YS-WG-03	MATERIAL	SUS 304
SURFACE	Sandblasted	WEIGHT	0.593kg/pc.
DESC.			

YS-WG-04



ITEM NO.	YS-WG-04	MATERIAL	SUS 304
SURFACE	Sandblasted	WEIGHT	0.533kg/pc.
DESC.			

YS-WG-05



ITEM NO.	YS-WG-05	MATERIAL	SUS 304
SURFACE	Sandblasted	WEIGHT	0.329kg/pc.
DESC.			

YS-WG-06



ITEM NO.	YS-WG-06	MATERIAL	SUS 304
SURFACE	Sandblasted	WEIGHT	0.495kg/pc.
DESC.			

Mini Rails

YS-I03



ITEM NO.	YS-I03	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	
SPEC.			

YS-I16



ITEM NO.	YS-I16	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	
DESC.			

YS-I17



ITEM NO.	YS-I17	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	
DESC.			

YS-CL-12



ITEM NO.	YS-CL-12	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	
DESC.			

YS-CL-21



ITEM NO.	YS-CL-21	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	
DESC.			

YS-WG-33



ITEM NO.	YS-WG-33	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	
DESC.			

Clip Lock

YS-WG-23



ITEM NO.	YS-WG-23	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	
DESC.			

YS-WG-27



ITEM NO.	YS-WG-27	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	
DESC.			

YS-WG-34



ITEM NO.	YS-WG-34	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	
DESC.			

YS-WG-35



ITEM NO.	YS-WG-35	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	
DESC.			

YS-WG-36



ITEM NO.	YS-WG-36	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	
DESC.			

YS-WG-37



ITEM NO.	YS-WG-37	MATERIAL	AL 6005-T5
SURFACE	Anodized	WEIGHT	
SPEC.			

Cable Clips

YS-XJ-01



ITEM NO.	YS-XJ-01	MATERIAL	SUS 304
SURFACE	Clean	WEIGHT	0.0025kg/pc.
DESC.	1~2 cables		

YS-XJ-02



ITEM NO.	YS-XJ-02	MATERIAL	SUS 304
SURFACE	Clean	WEIGHT	0.0057kg/pc.
DESC.	3~4 cables		

Grounding Components

YS-44



ITEM NO.	YS-44	MATERIAL	SUS 304
SURFACE	Clean	WEIGHT	
DESC.	Grounding Washer		

YS-45



ITEM NO.	YS-45	MATERIAL	SUS304
SURFACE	Clean	WEIGHT	
DESC.	Grounding Washer		

YS-54



ITEM NO.	YS-54	MATERIAL	Copper&Steel
SURFACE	Clean	WEIGHT	0.0758kg/pc.
DESC.	Bonding Jumper		

CUSTOMIZED Tile hooks

YS-RH-01



YS-RH-02



YS-RH-07



YS-RH-08



YS-RH-03



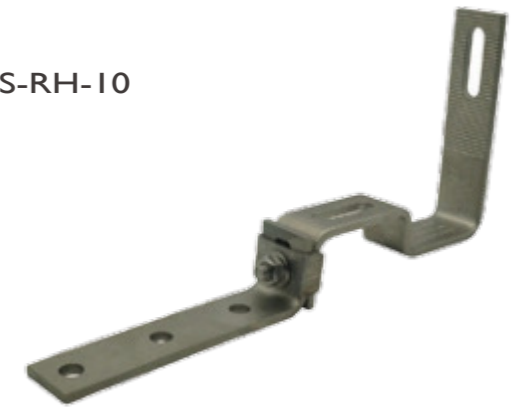
YS-RH-04



YS-RH-09



YS-RH-10



YS-RH-05



YS-RH-06



YS-RH-11



YS-RH-CT1



CUSTOMIZED Tile hooks