



**ARROWFIELD Co., Ltd.**

株式会社アローフィールド

## ベトナム製太陽光パネルについて



工場地域：ベトナム北部

生産ライン数：4ライン

従業員数：520名

総面積：5ha

資本金額：186,080,000,000VND（8,000,000USD相当額）

生産能力：300,000個/月、2GW(ギガワット)/年

太陽光パネル以外の製品、例えば蓄電池・ラックその他周辺機器などは、中国製のものを安価にて調達可能です。

同等品質の中国製太陽光パネルを供給することも可能です。

契約先と決済については下記のようになります。

ベトナム国内取引の場合

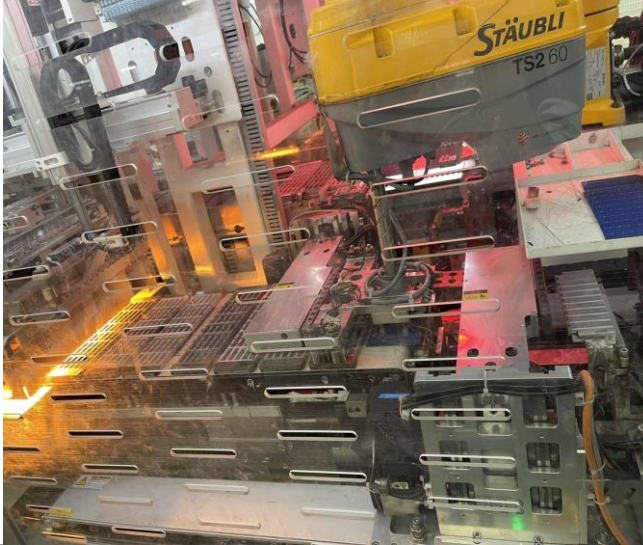
顧客は、ベトナム法人（製造メーカー）に対してVNDで決済。

海外取引の場合

顧客は、香港法人（販売会社）に対してUSDで決済。

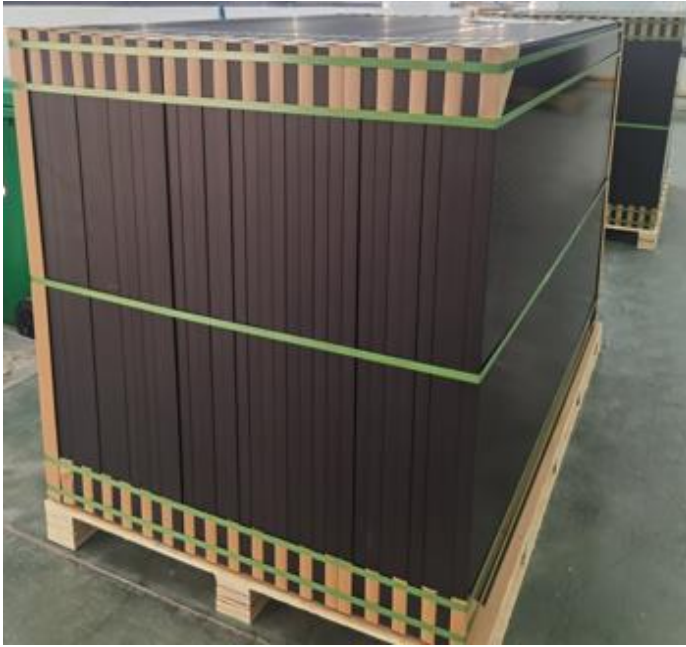
# ベトナム製太陽光パネル

## 太陽光パネル工場



# ベトナム製太陽光パネル

## 梱包状態



Pタイプ550Wのパネルの場合40フィートコンテナ(HQ)に660枚積載

# 1. Nタイプ



出力保証 30年

製品保証 12年





Product Service

# Attestation of Conformity

No. N8A 110336 0004 Rev. 00

**Model(s):** SNE-72M5-xxx-BH-DG, xxx=560-585, in steps of 5  
 SNE-66M5-xxx-BH-DG, xxx=510-535, in steps of 5  
 SNE-60M5-xxx-BH-DG, xxx=460-485, in steps of 5  
 SNE-54M5-xxx-BH-DG, xxx=420-440, in steps of 5  
 xxx stands for output power at STC

**Parameters:**

Test Laboratory:	Changzhou HuaYang Inspection and Testing Technology Co., Ltd. NO.8 Lanxiang Road, Wujin Economic Development Zone, Changzhou, Jiangsu, China
Construction:	Framed, double glass with Junction box, Cable and Connectors.
Safety Class :	Class II
Maximum System Voltage:	1500 V DC
Fire Safety Class:	Class C according to UL790

**Tested according to:** EN IEC 61730-1:2018  
 EN IEC 61730-1:2018/AC:2018-06  
 EN IEC 61730-2:2018  
 EN IEC 61730-2:2018/AC:2018-06



# CERTIFICATE

No. Z2 110336 0003 Rev. 00

**Model(s):** SNE-72M5-xxx-BH-DG, xxx=560-585, in steps of 5  
 SNE-66M5-xxx-BH-DG, xxx=510-535, in steps of 5  
 SNE-60M5-xxx-BH-DG, xxx=460-485, in steps of 5  
 SNE-54M5-xxx-BH-DG, xxx=420-440, in steps of 5  
 xxx stands for output power at STC

**Parameters:**

Test Laboratory:	Changzhou HuaYang Inspection and Testing Technology Co., Ltd. NO.8 Lanxiang Road, Wujin Economic Development Zone, Changzhou, Jiangsu, China
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Safety Class :	Class II
Maximum System Voltage:	1500 V DC
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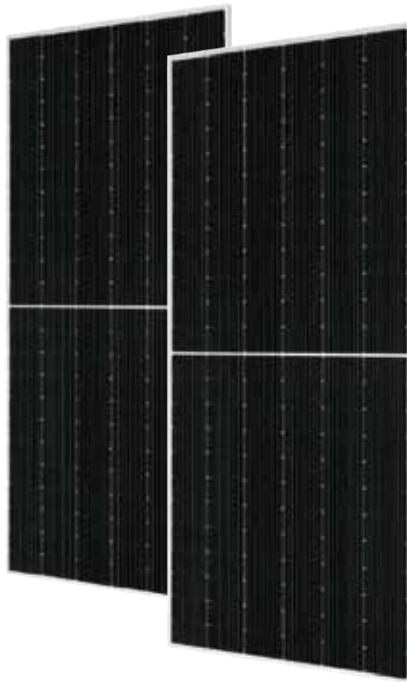
**Tested according to:** IEC 61215-1:2021  
 IEC 61215-1-1:2021  
 IEC 61215-2:2021  
 IEC 61730-1:2023  
 IEC 61730-2:2023



# 560~585W

**N-type | TOPCon Cells**  
**Bifacial | Double Glass**  
**182mm Mono | Half-Cut**

CE



**560~585W**

POWER RANGE

**0~+5W**

POWER TOLERANCE

**22.65%**

MAX MODULE EFFICIENCY

**≤ 1.0%**

FIRST YEAR POWER DEGRADATION

**≤ 0.4%**

YEAR 2-30 POWER DEGRADATION

## Electrical Specifications

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25° C, AM=1.5

Maximum Power (Pmax)	SNE-72M5-560-BH-DG	SNE-72M5-565-BH-DG	SNE-72M5-570-BH-DG	SNE-72M5-575-BH-DG	SNE-72M5-580-BH-DG	SNE-72M5-585-BH-DG
Maximum Power Voltage (Vmp)	41.95	42.12	42.29	42.46	42.63	42.80
Maximum Power Current (Imp)	13.35	13.42	13.48	13.55	13.61	13.67
Open Circuit Voltage (Voc)	49.69	49.86	50.03	50.20	50.37	50.54
Short Circuit Current (Isc)	14.26	14.32	14.38	14.44	14.50	14.56
Module efficiency	21.68%	21.78%	22.07%	22.26%	22.45%	22.65%

NOCT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20° C, AM=1.5, Wind Speed 1m/s

Maximum Power (Pmax)	423.46	427.40	431.05	435.03	438.70	441.14
Maximum Power Voltage (Vmp)	39.11	39.26	39.42	39.58	39.74	39.74
Maximum Power Current (Imp)	10.83	10.89	10.93	10.99	11.04	11.10
Open Circuit Voltage (Voc)	46.56	46.72	46.87	47.03	47.19	47.35
Short Circuit Current (Isc)	11.46	11.51	11.56	11.60	11.65	11.70

## Bifacial output-backside power gain

10%	Pmax [W]	616	621.5	627	632.5	638	643.5
	Module efficiency [%]	23.85	24.06	24.27	24.48	24.70	24.92
20%	Pmax [W]	672	678	684	690	696	702
	Module efficiency [%]	26.01	26.25	26.48	26.71	26.94	27.18

## Temperature Ratings (STC)

Temperature coefficient (Pmpp)	-0.37% / ° C	No. of diodes	3
Temperature coefficient (Isc)	+0.06% / ° C	Junction box IP rating	IP 68
Temperature coefficient (Voc)	-0.30% / ° C	Max. series fuse rating	30 A
Nominal module operating temperature (NOCT)	45 ± 2 ° C	Max. system voltage	1000/1500V <sub>DC</sub>

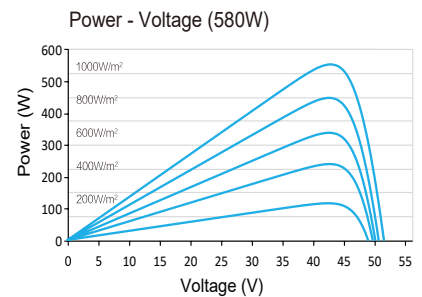
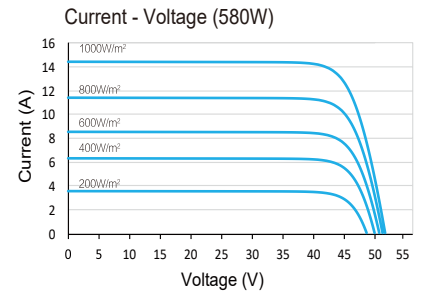
## Operating Parameters

## Mechanical Specifications

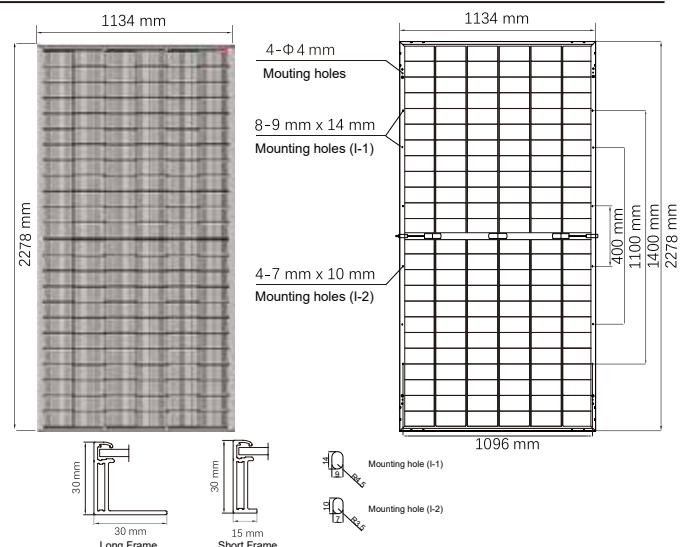
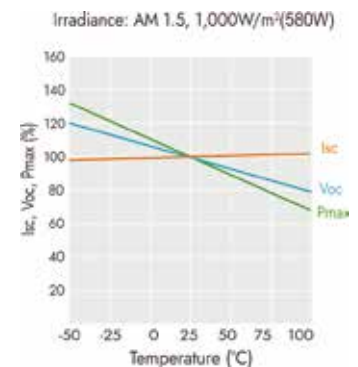
Outer dimensions (L x W x H)	2278 x 1134 x 30 mm
Cell Type	Monocrystalline I TOPCON PV Cells 182mm Cell I Half-cut I 16 Busbar I 144 (6x24) pcs in series
Frame technology	Frame 30 mm, Anodized aluminum alloy frame
Module weight	31.5 kg ±3%
Module Glass	High transparency, low iron, AR Coated tempered Glass
Module Backsheet	2.0mm thickness, transparent with a grid. High transmitted, low iron, and strength-tempered glass
Cable Length (Including Connector)	4mm <sup>2</sup> I Length: (+)1000mm, (-)1000mm
① Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Module Fire Type	Type 29 Fire rated
Connector type (IEC/UL)	T6
Packing unit	36 pcs / Pallet (Subject to sales contract)
Modules per 40' HQ container	720 pcs

① Refer to Shengtian installation manual or contact technical department.  
Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

## Curve



## PV Module: IV Curve

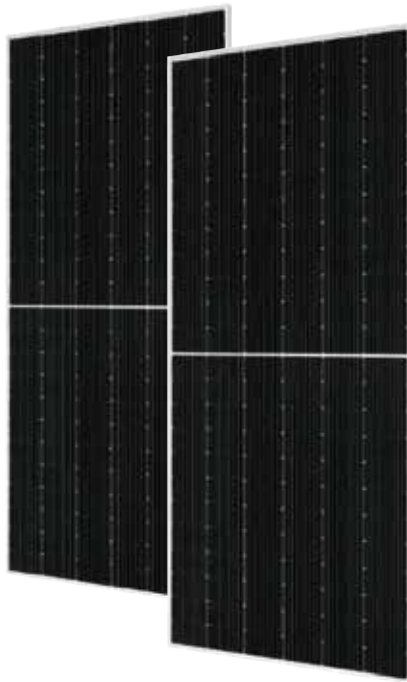






# 510~535W

**N-type | TOPCon Cells**  
**Bifacial | Double Glass**  
**182mm Mono | Half-Cut**



**510~535W**

POWER RANGE

**0~+5W**

POWER TOLERANCE

**22.53%**

MAX MODULE EFFICIENCY

**≤ 1.0%**

FIRST YEAR POWER DEGRADATION

**≤ 0.4%**

YEAR 2-30 POWER DEGRADATION

## Electrical Specifications

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25° C, AM=1.5

Maximum Power (Pmax)	SNE-66M5-510-BH-DG	SNE-66M5-515-BH-DG	SNE-66M5-520-BH-DG	SNE-66M5-525-BH-DG	SNE-66M5-530-BH-DG	SNE-66M5-535-BH-DG
Maximum Power Voltage (Vmp)	40.21	40.37	40.53	40.69	40.85	41.01
Maximum Power Current (Imp)	12.68	12.76	12.83	12.91	12.98	13.05
Open Circuit Voltage (Voc)	47.01	47.15	47.29	47.43	47.57	47.71
Short Circuit Current (Isc)	13.36	13.39	13.45	13.51	13.57	13.63
Module efficiency	21.48%	21.69%	21.90%	22.11%	22.32%	22.53%

NOCT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20° C, AM=1.5, Wind Speed 1m/s

Maximum Power (Pmax)	380	384	387	391	395	399
Maximum Power Voltage (Vmp)	37.64	37.79	37.94	38.09	38.24	38.39
Maximum Power Current (Imp)	10.09	10.15	10.21	10.27	10.33	10.39
Open Circuit Voltage (Voc)	44.38	44.51	44.64	44.77	44.90	45.03
Short Circuit Current (Isc)	10.79	10.82	10.87	10.92	10.96	11.01

## Bifacial output-backside power gain

10%	Pmax [W]	561	566.5	572	577.5	583	588.5
	Module efficiency [%]	23.63	23.86	24.09	24.32	24.55	24.78
20%	Pmax [W]	612	618	624	630	636	642
	Module efficiency [%]	25.78	26.03	26.28	26.53	26.78	27.04

## Temperature Ratings (STC)

Temperature coefficient (Pmpp)	-0.37% / °C	No. of diodes	3
Temperature coefficient (Isc)	+0.06% / °C	Junction box IP rating	IP 68
Temperature coefficient (Voc)	-0.30% / °C	Max. series fuse rating	30 A
Nominal module operating temperature (NOCT)	45 ± 2 °C	Max. system voltage	1000/1500V <sub>DC</sub>

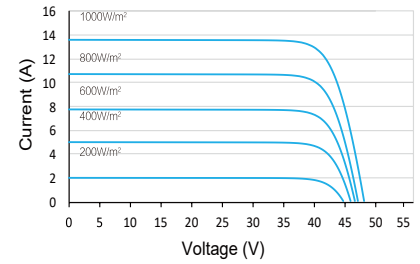
## Operating Parameters

## Mechanical Specifications

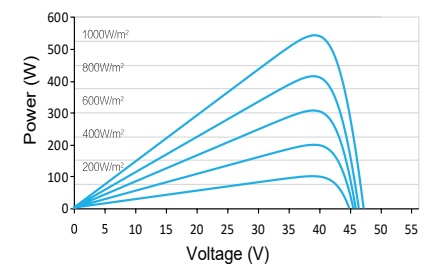
Outer dimensions (L x W x H)	2094 x 1134 x 30 mm
Cell Type	Monocrystalline I TOPCON PV Cells 182mm Cell I Half-cut I 16 Busbar I 132 (6x22) pcs in series
Frame technology	Frame 30 mm, Anodized aluminum alloy frame
Module weight	28.5 kg ±3%
Module Glass	High transparency, low iron, AR Coated tempered Glass
Module Backsheet	2.0mm thickness, transparent with a grid. High transmitted, low iron, and strength-tempered glass
Cable Length (Including Connector)	4mm <sup>2</sup>   Length: (+)1000mm, (-)1000mm
① Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Module Fire Type	Type 29 Fire rated
Connector type (IEC/UL)	T6
Packing unit	36 pcs / Pallet (Subject to sales contract)
Modules per 40' HQ container	864 pcs

① Refer to Shengtian installation manual or contact technical department.  
Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

Current - Voltage (530W)

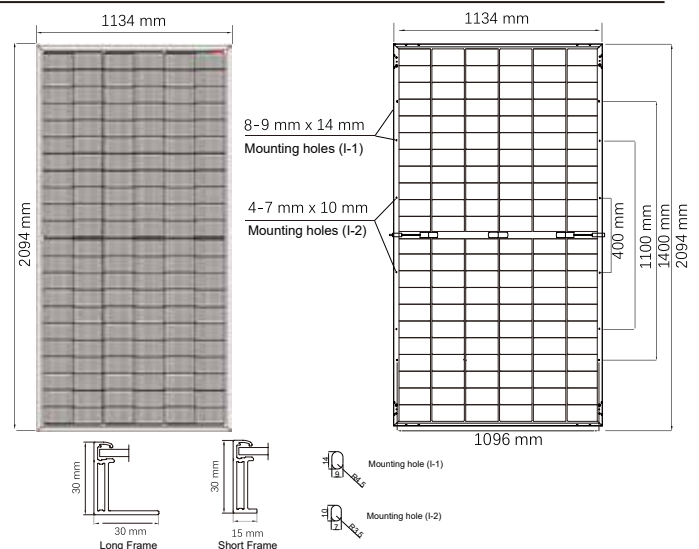
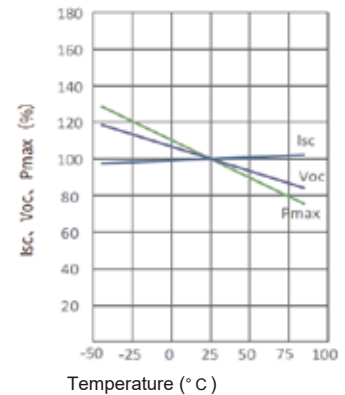


Power - Voltage (530W)



PV Module: IV Curve

Isc, Voc, Pmax

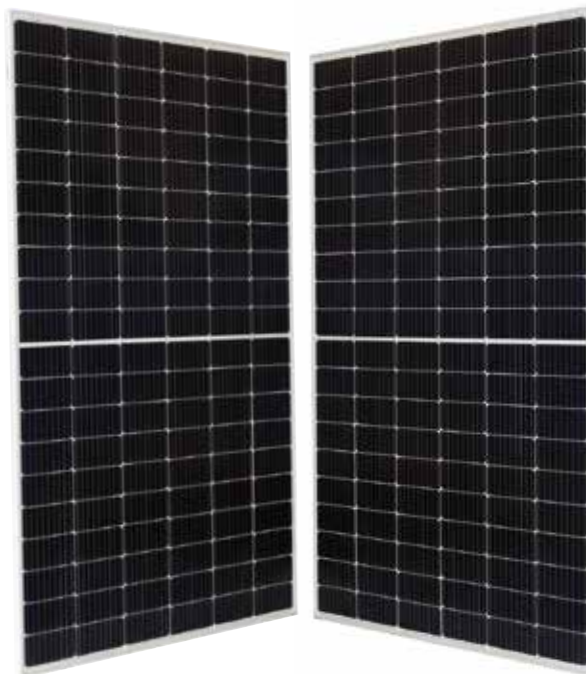




# 460~485W

**N-type | TOPCon Cells**  
**Bifacial | Double Glass**  
**182mm Mono | Half-Cut**

CE



**460~485W**

POWER RANGE

**0~+5W**

POWER TOLERANCE

**22.47%**

MAX MODULE EFFICIENCY

**≤ 1.0%**

FIRST YEAR POWER DEGRADATION

**≤ 0.4%**

YEAR 2-30 POWER DEGRADATION

## Electrical Specifications

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25° C, AM=1.5

	SNE-60M5-460-BH-DG	SNE-60M5-465-BH-DG	SNE-60M5-470-BH-DG	SNE-60M5-475-BH-DG	SNE-60M5-480-BH-DG	SNE-60M5-485-BH-DG
Maximum Power (Pmax)(W)						
Maximum Power Voltage (Vmp)(V)	34.73	34.90	35.07	35.24	35.41	35.58
Maximum Power Current (Imp)(A)	13.25	13.33	13.41	13.49	13.56	13.63
Open Circuit Voltage (Voc)(V)	41.59	41.78	41.97	42.16	42.35	42.54
Short Circuit Current (Isc)(A)	13.96	14.04	14.12	14.20	14.28	14.36
Module efficiency	21.32%	21.55%	21.78%	22.01%	22.24%	22.47%

NOCT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20° C, AM=1.5, Wind Speed 1m/s

	SNE-60M5-460-BH-DG	SNE-60M5-465-BH-DG	SNE-60M5-470-BH-DG	SNE-60M5-475-BH-DG	SNE-60M5-480-BH-DG	SNE-60M5-485-BH-DG
Maximum Power (Pmax)(W)	347.85	351.63	355.41	359.19	362.97	366.75
Maximum Power Voltage (Vmp)(V)	32.38	32.53	32.69	32.85	33.01	33.18
Maximum Power Current (Imp)(A)	10.75	10.81	10.88	10.94	11.00	11.06
Open Circuit Voltage (Voc)(V)	38.97	39.14	39.32	39.50	39.68	39.86
Short Circuit Current (Isc)(A)	11.22	11.28	11.35	11.41	11.48	11.54

Electrical performance parameters under the condition that the light irradiance ratio is 10%

	SNE-60M5-460-BH-DG	SNE-60M5-465-BH-DG	SNE-60M5-470-BH-DG	SNE-60M5-475-BH-DG	SNE-60M5-480-BH-DG	SNE-60M5-485-BH-DG
Maximum Power (Pmax)(W)	497	502	508	513	518	523
Maximum Power Voltage (Vmp)(V)	34.73	34.90	35.07	35.24	35.41	35.58
Maximum Power Current (Imp)(A)	14.31	14.40	14.48	14.57	14.64	14.70
Open Circuit Voltage (Voc)(V)	41.59	41.78	41.97	42.16	42.35	42.54
Short Circuit Current (Isc)(A)	15.08	15.16	15.25	15.34	15.42	15.50

## Temperature Ratings (STC)

Temperature coefficient (Pmpp)	-0.30% / °C	No. of diodes	3
Temperature coefficient (Isc)	+0.046% / °C	Junction box IP rating	IP 68
Temperature coefficient (Voc)	-0.25% / °C	Max. series fuse rating	30 A
Nominal module operating temperature (NOCT)	45±2 °C	Max. system voltage	1500V <sub>DC</sub>

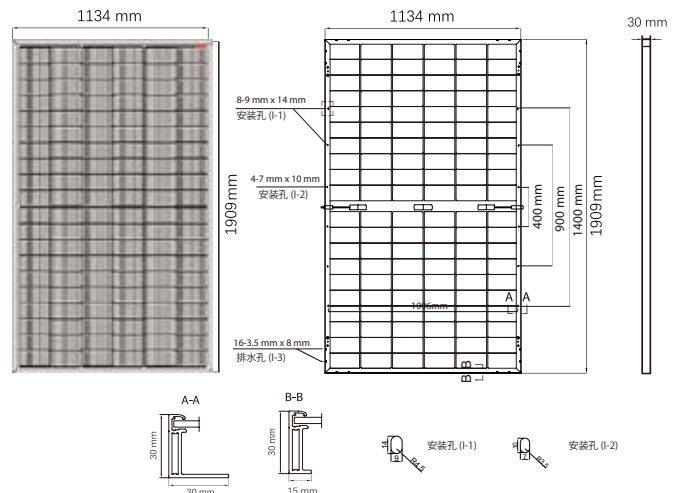
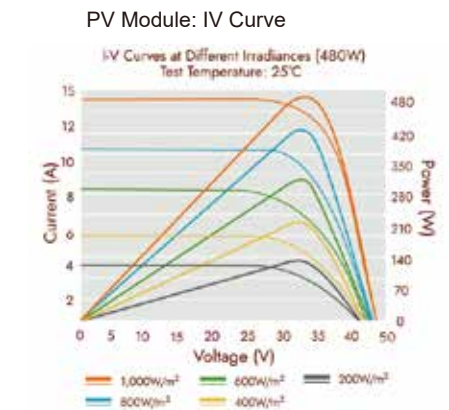
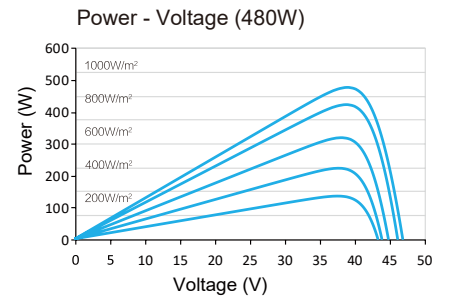
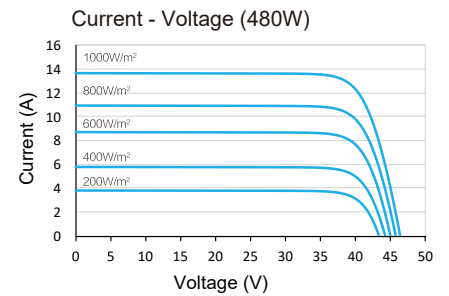
## Operating Parameters

## Mechanical Specifications

Outer dimensions (L x W x H)	1909 x 1134 x 30 mm
Cell Type	Monocrystalline I TOPCON PV Cells 182mm Cell I Half-cut I 120 (6x20) pcs in series
No. of cells	120 (6*20)
Frame technology	Frame 30 mm, Anodized aluminum alloy frame
Module Weight	26.0 kg ±3%
Module Glass	2.0 mm (0.079 inch) AR Coated semi-tempered Glass
Module Backsheet	2.0mm (0.079 inch) strength semi-tempered glass
Cable Length (Including Connector)	4mm <sup>2</sup> I Length: (+)1000mm, (-)1000mm
① Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Module Fire Type	Type 29 Fire rated
Connector type (IEC/UL)	T6
Packing unit	36 pcs / box (Subject to sales contract)
Modules per 40' HQ container	864 pcs

① Refer to Shengtian installation manual or contact technical department.  
Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

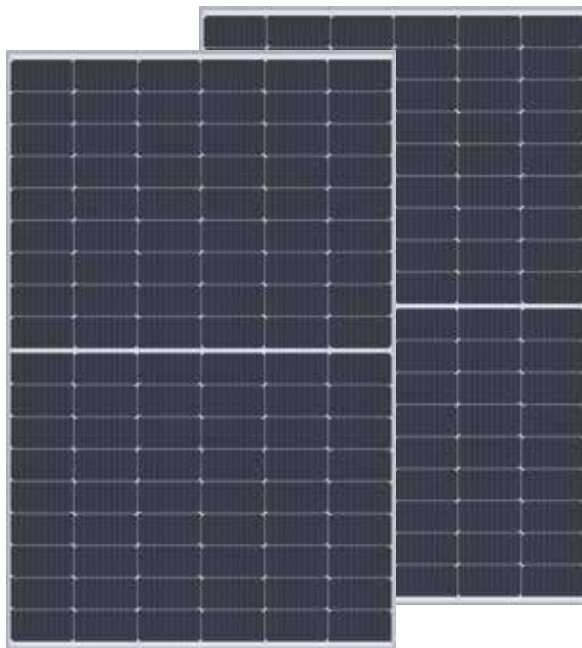
## Curve





# 420~440W

**N-type | TOPCon Cells**  
**Bifacial | Double Glass**  
**182mm Mono | Half-Cut**



**420~440W**

POWER RANGE

**0~+5W**

POWER TOLERANCE

**22.53%**

MAX MODULE EFFICIENCY

**≤ 1.0%**

FIRST YEAR POWER DEGRADATION

**≤ 0.4%**

YEAR 2-30 POWER DEGRADATION

## Electrical Specifications

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25° C, AM=1.5

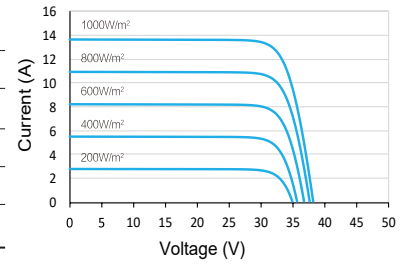
Maximum Power (Pmax)(W)	SNE-54M5-420 -BH-DG	SNE-54M5-425 -BH-DG	SNE-54M5-430 -BH-DG	SNE-54M5-435 -BH-DG	SNE-54M5-440 -BH-DG
Maximum Power Voltage (Vmp)(V)	32.54	32.71	32.88	33.05	33.19
Maximum Power Current (Imp)(A)	12.91	13.00	13.08	13.17	13.26
Open Circuit Voltage (Voc)(V)	38.66	38.85	39.04	39.23	39.42
Short Circuit Current (Isc)(A)	13.60	13.69	13.78	13.87	13.96
Module efficiency	21.51%	21.76%	22.02%	22.28%	22.53%

NOCT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20° C, AM=1.5, Wind Speed 1m/s

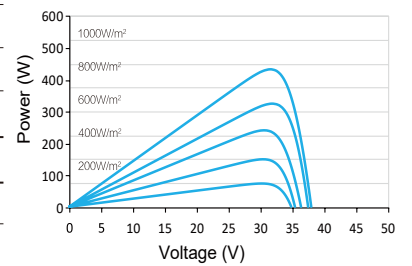
Maximum Power (Pmax)(W)	317.60	321.38	325.16	328.94	332.72
Maximum Power Voltage (Vmp)(V)	30.33	30.49	30.65	30.81	30.94
Maximum Power Current (Imp)(A)	10.47	10.54	10.61	10.68	10.76
Open Circuit Voltage (Voc)(V)	36.22	36.40	36.58	36.76	36.93
Short Circuit Current (Isc)(A)	10.93	11.00	11.07	11.15	11.22

## Curve

Current - Voltage (440W)



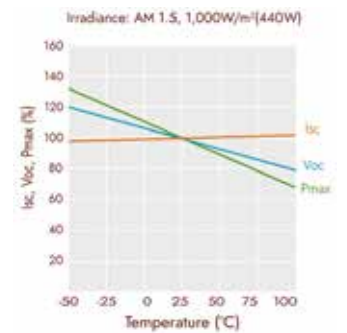
Power - Voltage (440W)



Electrical performance parameters under the condition that the light irradiance ratio is 10%

Maximum Power (Pmax)(W)	454	459	464	470	475
Maximum Power Voltage (Vmp)(V)	32.54	32.71	32.88	33.05	33.19
Maximum Power Current (Imp)(A)	13.94	14.04	14.13	14.22	14.32
Open Circuit Voltage (Voc)(V)	38.66	38.85	39.04	39.23	39.42
Short Circuit Current (Isc)(A)	14.69	14.79	14.88	14.98	15.08

PV Module: IV Curve



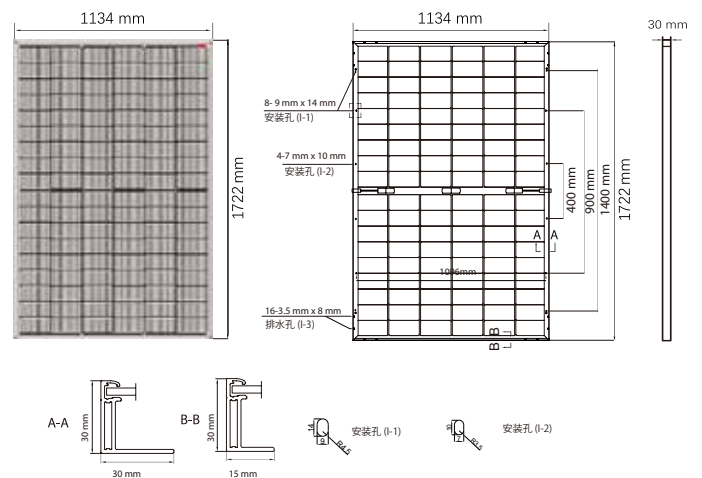
## Temperature Ratings (STC)

Temperature coefficient (Pmpp)	-0.30% / °C	No. of diodes	3
Temperature coefficient (Isc)	+0.046% / °C	Junction box IP rating	IP 68
Temperature coefficient (Voc)	-0.25% / °C	Max. series fuse rating	30 A
Nominal module operating temperature (NOCT)	45±2 °C	Max. system voltage	1500V <sub>DC</sub>

## Operating Parameters

## Mechanical Specifications

Outer dimensions (L x W x H)	1722 x 1134 x 30 mm
Cell Type	Monocrystalline I TOPCON PV Cells 182mm Cell I Half-cut I 108 (6x18) pcs in series
No. of cells	108 (6*18)
Frame technology	Frame 30 mm, Anodized aluminum alloy frame
Module Weight	23.5 kg ±3%
Module Glass	2.0 mm (0.079 inch) AR Coated semi-tempered Glass
Module Backsheet	2.0mm (0.079 inch) strength semi-tempered glass
Cable Length (Including Connector)	4mm² I Length: (+)1000mm, (-)1000mm
① Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Module Fire Type	Type 29 Fire rated
Connector type (IEC/UL)	T6
Packing unit	36 pcs / box (Subject to sales contract)
Modules per 40' HQ container	936 pcs

① Refer to Shengtian installation manual or contact technical department.  
Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

## 2. Pタイプ



出力保証25年



製品保証12年



# 530-550W Bifacial Solar Modules with 182mm Mono Half-cut PERC Cells

**530~550W**

POWER RANGE

**0~+5W**

POWER TOLERANCE

**21.1%**

MAX MODULE EFFICIENCY

**≤ 2.0%**

FIRST YEAR POWER DEGRADATION

**≤ 0.45%**

YEAR 2-30 POWER DEGRADATION



## Electrical Specifications

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25° C, AM=1.5

Rated output (Pmpp / Wp)	SNE-BH144M-530TW	SNE-BH144M-535TW	SNE-BH144M-540TW	SNE-BH144M-545TW	SNE-BH144M-550TW
Rated voltage (Vmpp / V)	41.31	41.47	41.64	41.80	41.96
Rated current (Impp / A)	12.83	12.91	12.97	13.04	13.11
Open circuit voltage (Voc / V)	49.30	49.45	49.60	49.75	49.90
Short circuit current (Isc / A)	13.72	13.79	13.86	13.93	14.00
Module efficiency	20.3%	20.5%	20.7%	20.9%	21.1%

NMOT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20° C, AM=1.5, Wind Speed 1m/s

Rated output (Pmpp / Wp)	398	401	405	409	413
Rated voltage (Vmpp / V)	37.18	37.24	37.30	37.36	37.42
Rated current (Impp / A)	10.69	10.77	10.86	10.94	11.03
Open circuit voltage (Voc / V)	46.20	46.24	46.28	46.32	46.36
Short circuit current (Isc / A)	11.29	11.38	11.46	11.54	11.62

## Electrical Specifications (Integrated power)

Pmpp gain	Pmpp / Wp	Vmpp / V	Impp / A	Voc / V	Isc / A
5%	567	41.46	13.68	49.60	14.55
10%	594	41.46	14.33	49.60	15.25
15%	621	41.47	14.97	49.61	15.94
20%	648	41.47	15.63	49.61	16.63
25%	675	41.48	16.27	49.62	17.33

Electrical characteristics with different rear power gain (reference to 540W)

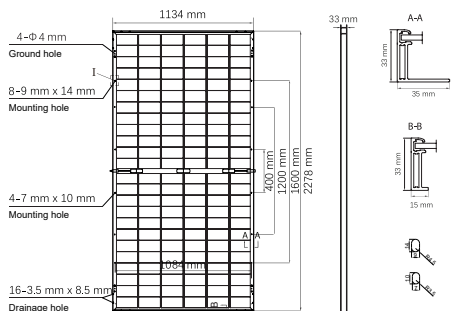
## Temperature Ratings (STC)

Temperature coefficient (Pmpp)	-0.35% / °C	No. of diodes	3
Temperature coefficient (Isc)	+0.045% / °C	Junction box IP rating	IP 68
Temperature coefficient (Voc)	-0.27% / °C	Max. series fuse rating	30 A
Nominal module operating temperature (NMOT)	41±2 °C	Max. system voltage (IEC/UL)	1500 <sub>DC</sub>

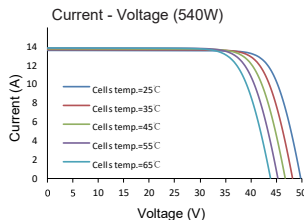
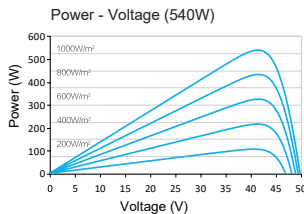
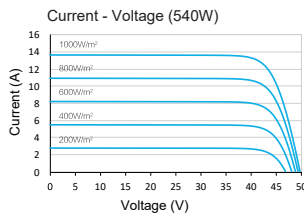
## Operating Parameters

## Mechanical Specifications

Outer dimensions (L x W x H)	2278 x 1134 x 33 mm
Cell Type	PERC Mono crystalline 182 x 91 mm
No. of cells	144 (6*24)
Frame technology	Anodized aluminium alloy
Front glass	2.0 mm DG / 3.2 mm TW
Cable Length (Including Connector)	4.0 mm (12AWG) 2, Portrait:300mm(+)/400mm(-); Or customized MC4 Compatible
① Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Connector type (IEC/UL)	HCB40 / MC4-EVO2 (optional)
Packing unit	33 pcs / box (Subject to sales contract)
Modules per 40' HQ container	660 pcs



## Curve





# 440~455W Bifacial Solar Modules with 182mm Mono Half-cut PERC Cells

**440~455W**

POWER RANGE

**0~+5W**

POWER TOLERANCE

**21.01%**

MAX MODULE EFFICIENCY

**≤ 2.0%**

FIRST YEAR POWER DEGRADATION

**≤ 0.45%**

YEAR 2-30 POWER DEGRADATION



## Electrical Specifications

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM=1.5

Rated output (P <sub>mpp</sub> / Wp)	SNE-BH120M-440TW	SNE-BH120M-445TW	SNE-BH120M-450TW	SNE-BH120M-455TW
Rated voltage (V <sub>mpp</sub> / V)	34.41	34.58	34.73	34.90
Rated current (I <sub>mpp</sub> / A)	12.79	12.87	12.96	13.04
Open circuit voltage (V <sub>oc</sub> / V)	40.91	41.04	41.20	41.36
Short circuit current (I <sub>sc</sub> / A)	13.70	13.79	13.87	13.95
Module efficiency	20.32%	20.56%	20.78%	21.01%

NMOT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

Rated output (P <sub>mpp</sub> / Wp)	332	336	340	344
Rated voltage (V <sub>mpp</sub> / V)	31.91	32.04	32.20	32.36
Rated current (I <sub>mpp</sub> / A)	10.40	10.49	10.56	10.63
Open circuit voltage (V <sub>oc</sub> / V)	38.41	38.54	38.70	38.86
Short circuit current (I <sub>sc</sub> / A)	10.80	10.90	10.98	11.07

## Electrical Specifications (Integrated power)

P <sub>mpp</sub> gain	P <sub>mpp</sub> / Wp	V <sub>mpp</sub> / V	I <sub>mpp</sub> / A	V <sub>oc</sub> / V	I <sub>sc</sub> / A
10%	484	34.41	14.07	40.91	15.07
15%	506	34.41	14.71	40.91	15.76
20%	528	34.42	15.34	40.92	16.44
25%	550	34.42	15.98	40.92	17.13

Electrical characteristics with different rear power gain (reference to 440W)

## Temperature Ratings (STC)

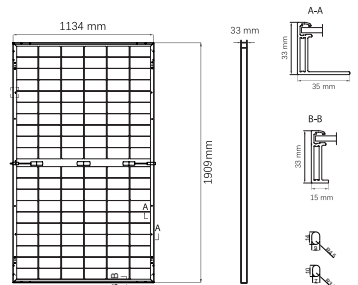
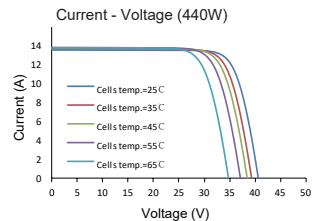
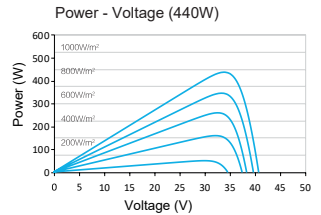
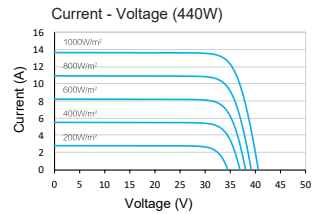
Temperature coefficient (P <sub>mpp</sub> )	-0.35% / °C	No. of diodes	3
Temperature coefficient (I <sub>sc</sub> )	+0.045% / °C	Junction box IP rating	IP 68
Temperature coefficient (V <sub>oc</sub> )	-0.27% / °C	Max. series fuse rating	30 A
Nominal module operating temperature (NMOT)	41±2 °C	Max. system voltage (IEC/UL)	1500V <sub>oc</sub>

## Operating Parameters

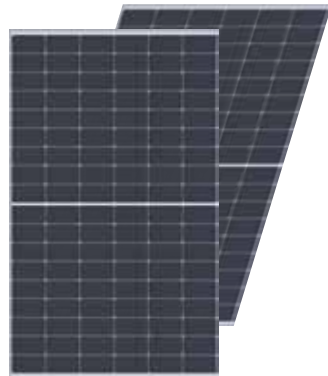
## Mechanical Specifications

Outer dimensions (L x W x H)	1909 x 1134 x 33 mm
Cell Type	PERC Mono crystalline 182 x 91 mm
No. of cells	120 (6*20)
Frame technology	Anodized aluminium alloy
Front glass	2.0 mm DG / 3.2 mm TW
Cable Length (Including Connector)	4.0 mm (12AWG) 2, Portrait:300mm(+)/400mm(-); Or customized MC4 Compatible
Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Connector type (IEC/UL)	HCB40 / MC4-EVO2 (optional)
Packing unit	33 pcs / box (Subject to sales contract)
Modules per 40' HQ container	792 pcs

## Curve



# 395~415W All Black Solar Modules with 182mm Mono Half-cut PERC Cells



**395~415W**

POWER RANGE

**0~+5W**

POWER TOLERANCE

**21.3%**

MAX. MODULE EFFICIENCY

**≤ 2.0%**

FIRST YEAR POWER DEGRADATION

**≤ 0.45%**

YEAR 2-30 POWER DEGRADATION

## Electrical Specifications

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25° C, AM=1.5

Rated output (Pmpp / Wp)	SNE-BH108M-395TW	SNE-BH108M-400TW	SNE-BH108M-405TW	SNE-BH108M-410TW	SNE-BH108M-415TW
Rated voltage (Vmpp / V)	30.83	31.03	31.22	31.42	31.61
Rated current (Imp / A)	12.81	12.89	12.97	13.05	13.13
Open circuit voltage (Voc / V)	36.97	37.09	37.21	37.33	37.45
Short circuit current (Isc / A)	13.69	13.77	13.86	13.94	14.02
Module efficiency	20.23%	20.48%	20.74%	20.99%	21.25%

NMOT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20° C, AM=1.5, Wind Speed 1m/s

Rated output (Pmpp / Wp)	298	302	306	310	314
Rated voltage (Vmpp / V)	29.08	29.27	29.46	29.66	29.85
Rated current (Imp / A)	10.25	10.32	10.39	10.45	10.52
Open circuit voltage (Voc / V)	34.78	34.86	35.00	35.13	35.25
Short circuit current (Isc / A)	10.71	10.83	10.93	11.03	11.13

## Electrical Specifications (Integrated power)

Pmpp gain	Pmpp / Wp	Vmpp / V	Imp / A	Voc / V	Isc / A
10%	440	31.03	14.18	37.09	15.15
15%	460	31.03	14.82	37.09	15.84
20%	480	31.04	15.47	37.10	16.52
25%	500	31.04	16.11	37.10	17.21

Electrical characteristics with different rear power gain (reference to 400W)

## Temperature Ratings (STC)

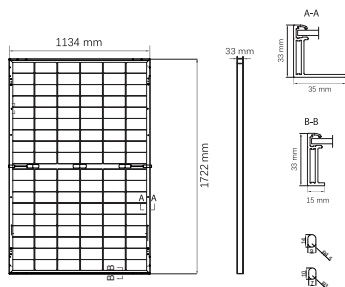
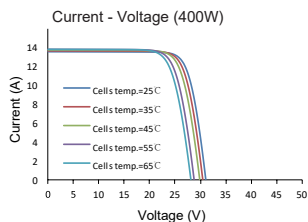
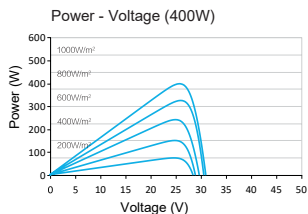
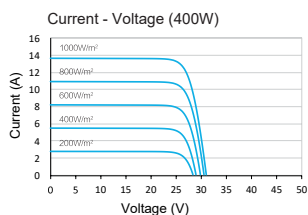
Temperature coefficient (Pmpp)	-0.35% / ° C.	No. of diodes	3
Temperature coefficient (Isc)	+0.045% / ° C	Junction box IP rating	IP 68
Temperature coefficient (Voc)	-0.27% / ° C	Max. series fuse rating	30 A
Nominal module operating temperature (NMOT)	41±2 ° C	Max. system voltage (IEC/UL)	1500V <sub>oc</sub>

## Operating Parameters

## Mechanical Specifications

Outer dimensions (L x W x H)	1722 x 1134 x 33 mm
Cell Type	PERC Mono crystalline 182 x 91 mm
No. of cells	108 (6*18)
Frame technology	Anodized aluminium alloy
Front glass	2.0 mm DG / 3.2 mm TW
Cable Length (Including Connector)	4.0 mm(12AWG) 2, Portrait:300mm(+/-)400mm(-); Or customized MC4 Compatible
Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Connector type (IEC/UL)	HCB40 / MC4-EVO2 (optional)
Packing unit	33 pcs / box (Subject to sales contract)
Modules per 40' HQ container	858 pcs

## Curve





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ご質問など、お気軽にお問い合わせください。