



ASTROENERGY



1.

1.2

1.1

2.

1

1

CHSM54M-HC	CHSM54N-HC	CHSM54M/LV-HC
CHSM54M(BL)-HC	CHSM54N(BL)-HC	CHSM54M(BLH)-HC
CHSM54N(BLH)-HC	CHSM60M-HC	CHSM60N-HC
CHSM60M/LV-HC	CHSM60M(BL)-HC	CHSM60N(BL)-HC
CHSM60M(BLH)-HC	CHSM60N(BLH)-HC	CHSM66M-HC
CHSM66N-HC	CHSM66M/LV-HC	CHSM72M-HC
CHSM72N-HC	CHSM72M/LV-HC	CHSM72M(BL)-HC
CHSM72N(BL)-HC	CHSM72M(BLH)-HC	CHSM72N(BLH)-HC
CHSM78M-HC	CHSM78N-HC	CHSM72RN-HC
CHSM54RN-HC	CHSM54RN(BLH)-HC	CHSM54RN(BL)-HC

3.

IEC61215

IEC61730 UL61730

A

50V

240W

IEC61730 4 C

UL61730



3.1

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DOP

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30V

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50m

50m

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50~500m

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90
4mm

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3.2

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10

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UV

C

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48mm

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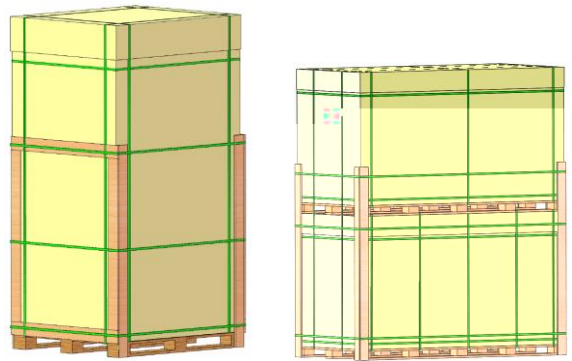
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1.

2.

6

3.

2

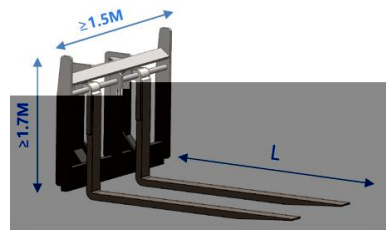
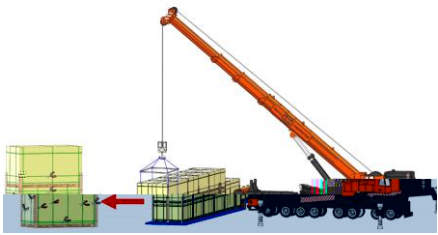
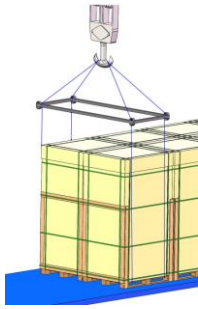
2

4.1 &

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ASTRONERGY



1.7M, 1.5M

1.

2.

L 3/4

1.7M

1.5M

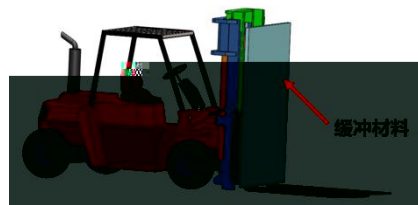
3.

EPE

EPE

4.

50mm

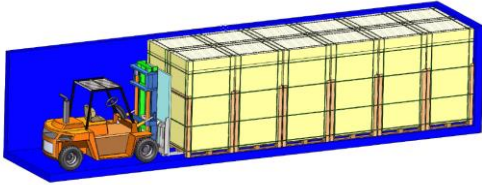


|



1

4.2



6

2

1.

(

14

1.5)

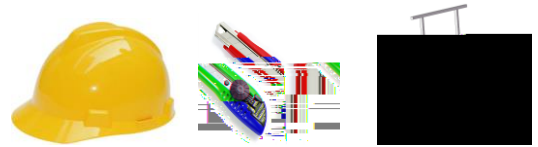
2000kgf

1.

2.

5km/h

3km/h



3.

75mm

2.

1)

2)

3)

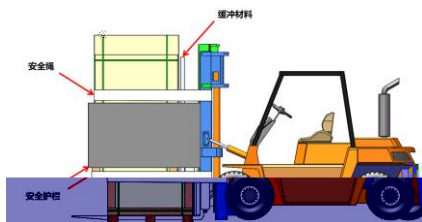
4)

5)

6)

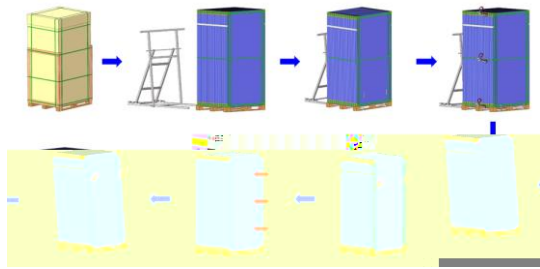
7)

8)





ASTROENERGY



670W-H

670W-L

3.

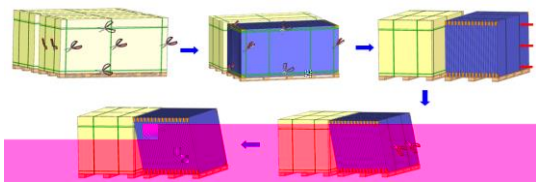
1)

2)

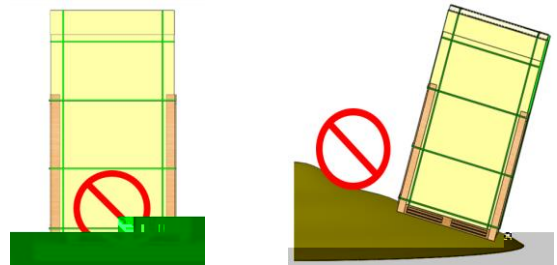
3)

4)

5)



4°



4.3

4°

5.

5.1

· -
· - +8

14

/ 5400Pa/2400Pa

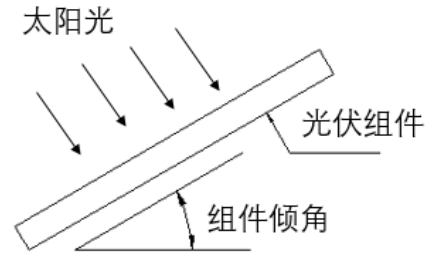
1.5

3600Pa/1600Pa

|



5.3



1

ISO 9223 C3

BOM

5.3

5.2

1

10°

10cm

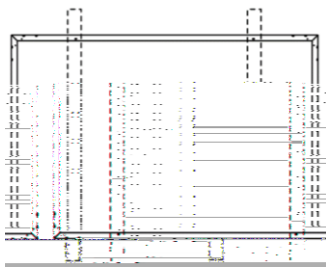
10mm

|

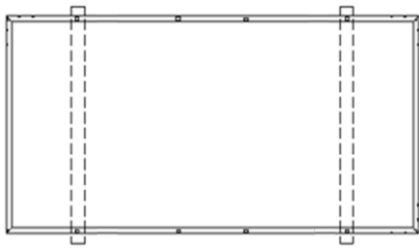


5.3.1

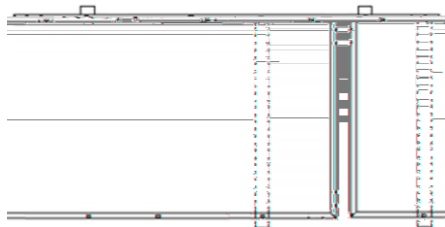
2 3 4 5 6 7 8
9 2 4



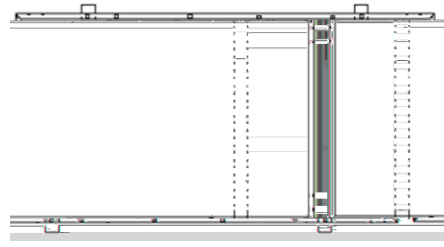
2 54cell



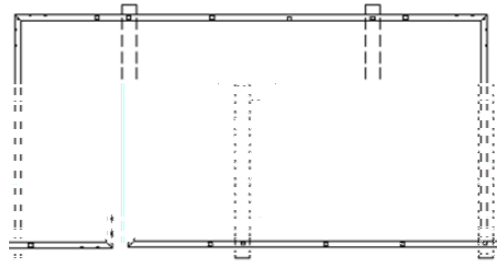
3 60cell



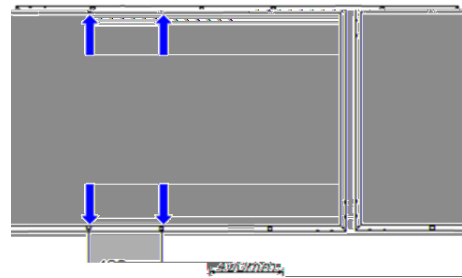
4 66cell



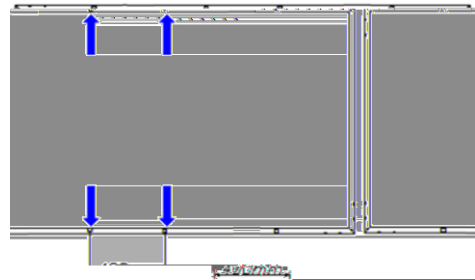
5 72cell



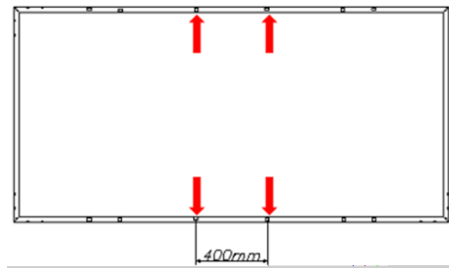
6 72cell



7 60cell 400mm



8 66cell 400mm





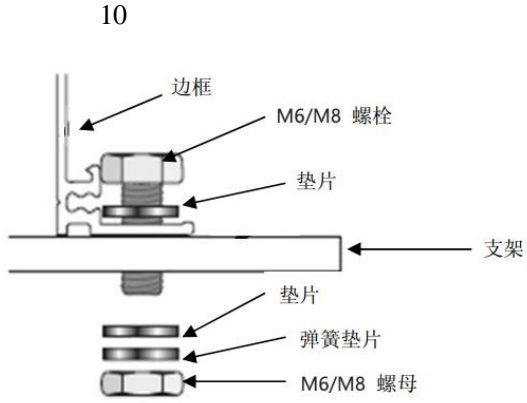
9 72cell

400mm

30mm

20mm

5.3.2



10

11

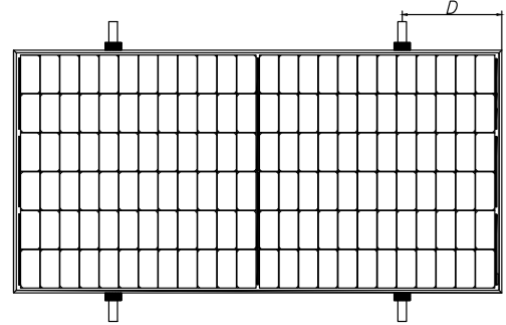
12

4

13

4

10



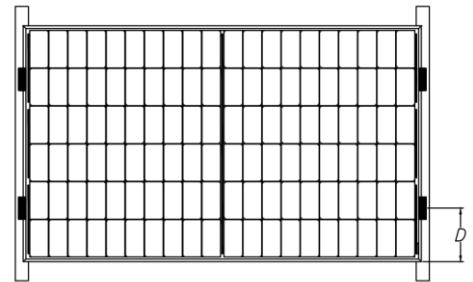
4 9x14mm

4 M8 400mm

7x10mm 4 M6

11

1.5mm



16~18mm

210

18~20mm

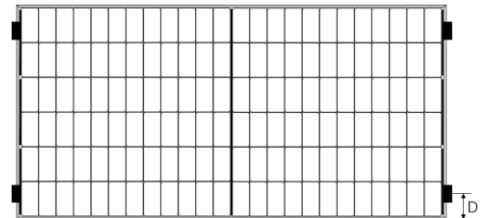
12

GB /T 3103.3 - 2020 A

M6

9~12Nm M8

17~23Nm



13



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2 ---

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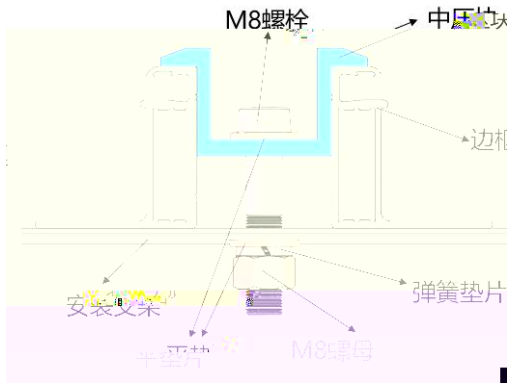
M8

M8

4



ASTRONERGY



17

A
9
1.2mm
0.6mm 15
12 C
25mm

2

	L*W*H(mm)						400mm
CHSM54M-HC CHSM54M/LV-HC CHSM54M(BL)-HC CH							



ASTRONERGY

CHSM60N(BL)-HC CHSM60N(BLH)-HC	1755*1038*30	+5400Pa -2400Pa	---	+5400/-2400Pa D 350~400mm	---	---	---
	1903*1134*30 1908*1134*30	+5400Pa -2400Pa	+5400Pa a -2400Pa	+5400/-2400Pa D 320-520mm	+1600/-1600Pa D 150~250mm	---	
	2172*1303*35	+5400Pa -2400Pa	---	+5400/-2400Pa D 375~425mm			

--- C-4 640Pa EF39330D24 TET EMC /Spn MCID 120/Lang (en-US) BDC 411.35

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ASTROENERGY

2

	L*W*H(mm)				



6.

6.1

-26 ~ -30	1.21
-31 ~ -35	1.23
-36 ~ -40	1.25

STC 1000W/m² AM1.5 25

Isc

$$C_{voc} = 1 - \frac{V_{oc}}{V_{oc} \times 25 - T_{min}}$$

Voc Pmpp

Cvoc

Voc (%/°C)

STC

T_{min} (°C)

STC

1.25

3

1.25

1.56

3

$$N * V_{oc} * C_{voc}$$

N

Voc

24 ~ 20	1.02
19 ~ 15	1.04
14 ~ 10	1.06
9 ~ 5	1.08
4 ~ 0	1.10
-1 ~ -5	1.12
-6 ~ -10	1.14
-11 ~ -15	1.16
-16 ~ -20	1.18
-21 ~ -25	1.20

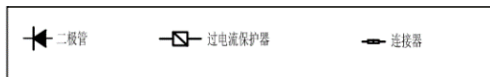
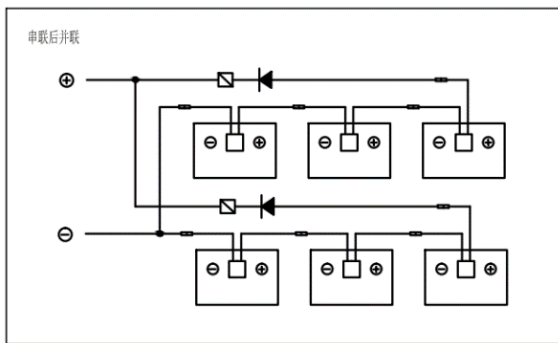
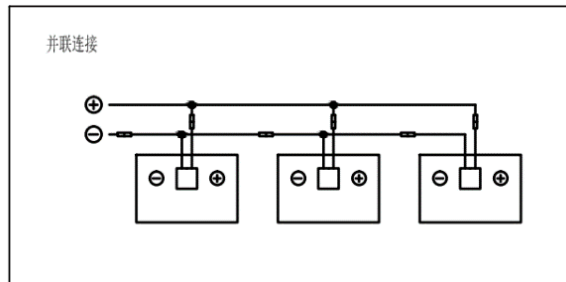
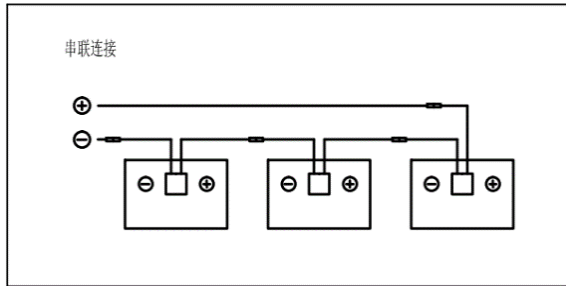
6.2



PV

PV

10V



12 AWG

4mm²



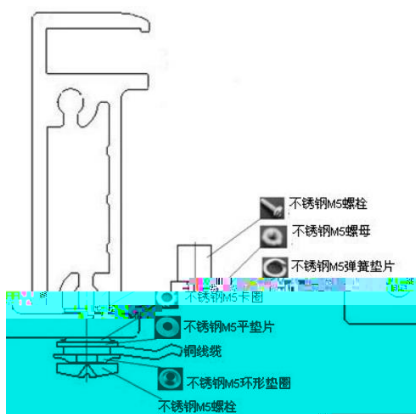
•				
•	M5	M5	M5	
•	M5	M5		
	5.5mm			
		M5		
•				
•				
•				
•				
•				

6.3

UL-467
Burndy (Wiley Electronics) WEEB

UL-467

UL 2703



7.

7.1



6

7.2

15°

- Rev1.0 2022 9
- Rev1.1 2023 1
- Rev1.2 2023 6
- Rev1.3 2023 12

1

314415

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