1

1

CHSM48N(DGT)/F-BH	CHSM54M(DG)/F-BH
CHSM54N(DGT)(BLH)/F-BH	CHSM54M(DGT)/F-BH
CHSM54N(DG)/F-BH	CHSM54M(DG)/F-HC
CHSM54N(DGT)/F-BH	CHSM60M(DG)/F-BH
CHSM54N(DG)/F-HC	CHSM60M(DGT)/F-BH
CHSM60N(DG)/F-BH	CHSM60M(DG)/F-HC
CHSM60N(DGT)/F-BH	CHSM66M(DG)/F-BH
CHSM60N(DG)/F-HC	CHSM72M(DG)/F-BH
CHSM72N(DG)/F-BH	CHSM72M(DGT)/F-BH
CHSM72N(DGT)/F-BH	CHSM78M(DG)/F-BH
CHSM72N(DG)/F-HC	

ASTRONERGY

90

4mm

ASTRONERGY

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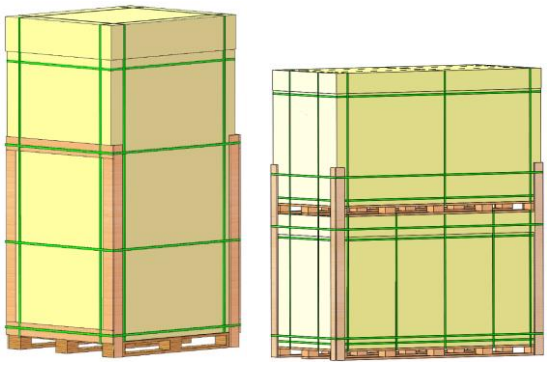
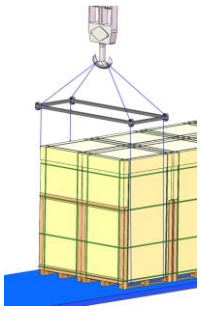


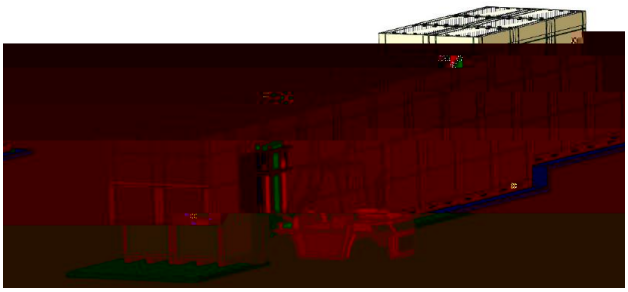
1.

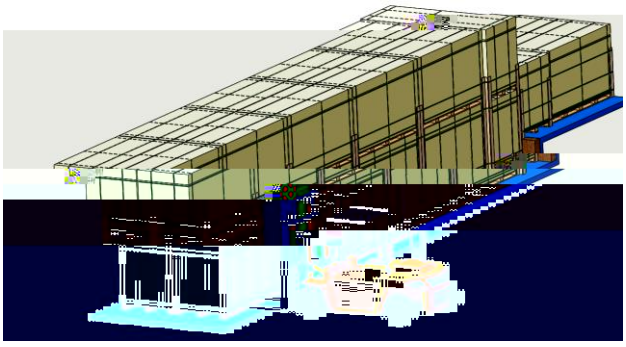
2. 6

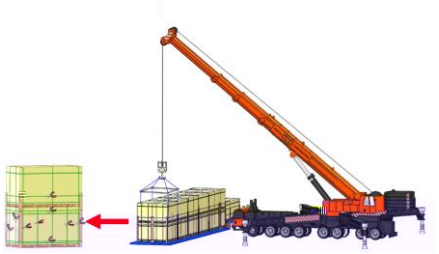
3. 2

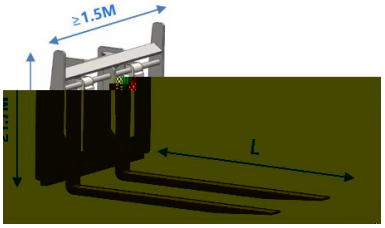
2









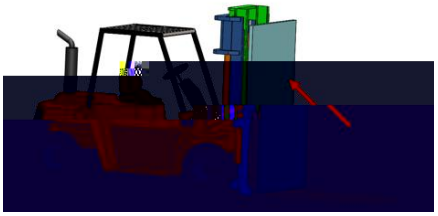


1.

1.7M, 1.5M

2.

L



3/4 1.7M

1.5M

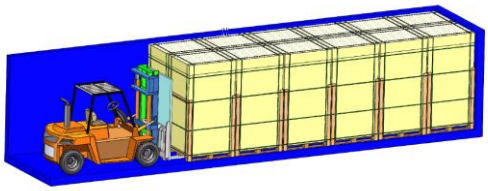
3. EPE

EPE

4.

50mm

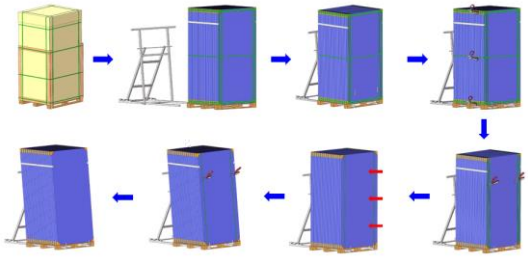
1



7)

8)

14



670W-L

670W-H

3.

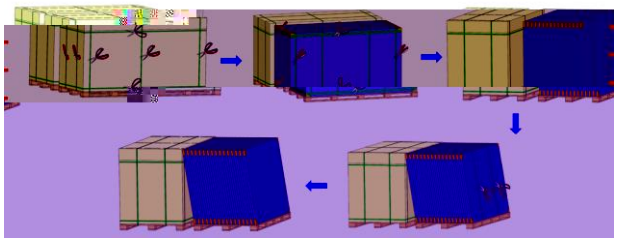
1)

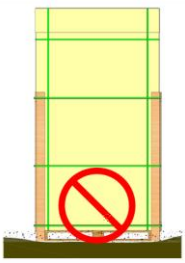
2)

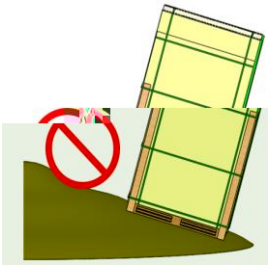
3) 4°

4)

5)







4°

/

· -20 +50

-40 +85

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/ 5400Pa/2400Pa

1.5

3600Pa/1600Pa

5.3

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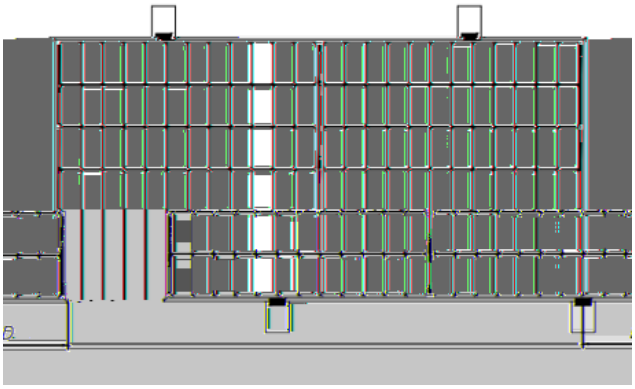
3



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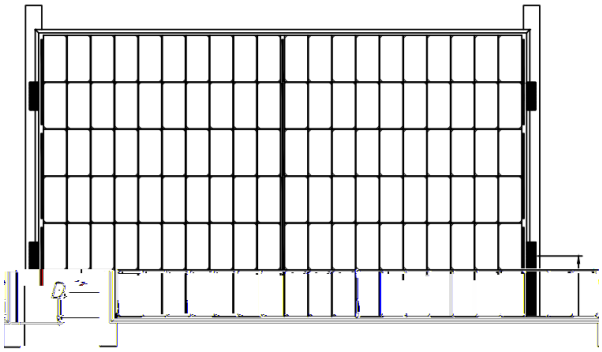
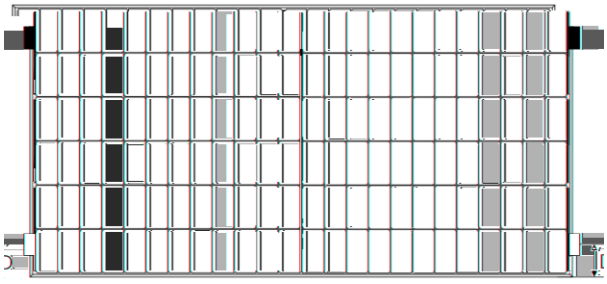


5

8mm 11mm

M8



6

7 8 9 10

a 40 mm, b 16 mm, c 5 mm d 8mm e 15mm, Ø =9 mm 3mm 182 210

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a 60mm 8.8

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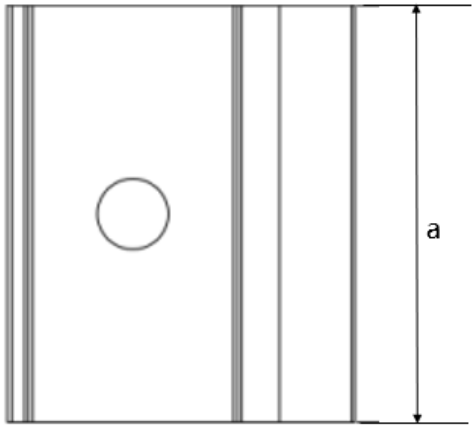
17~23Nm

D



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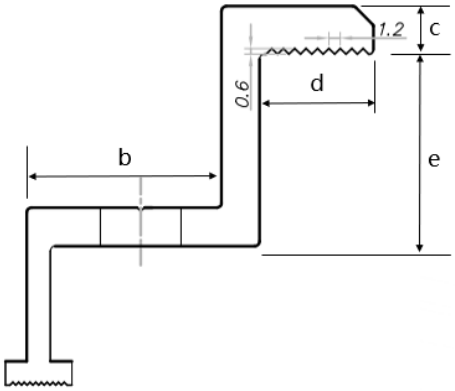

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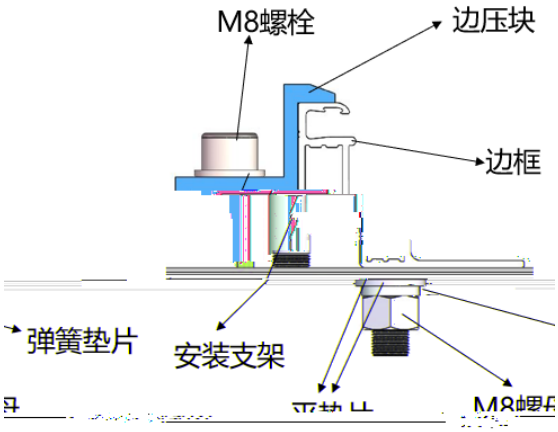

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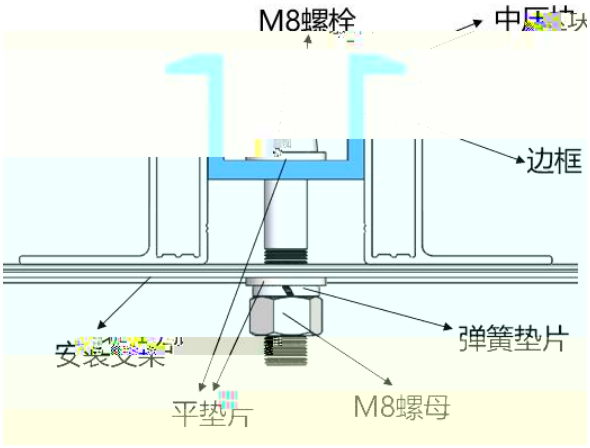


10

A

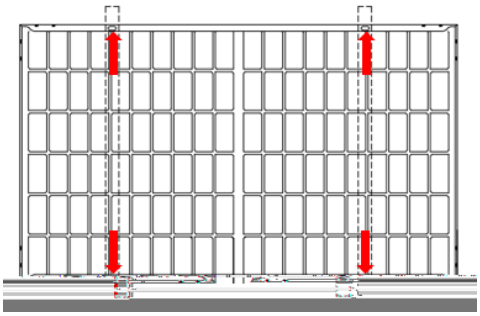
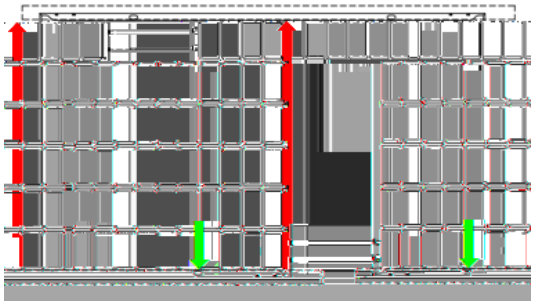
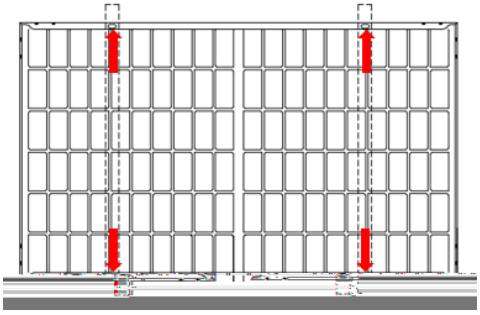
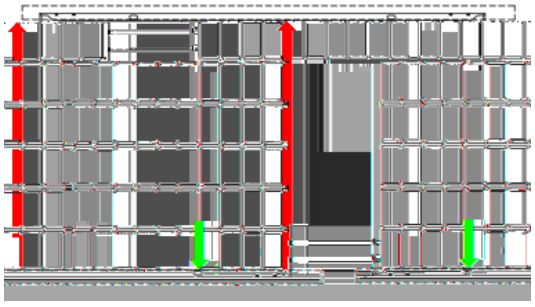
9

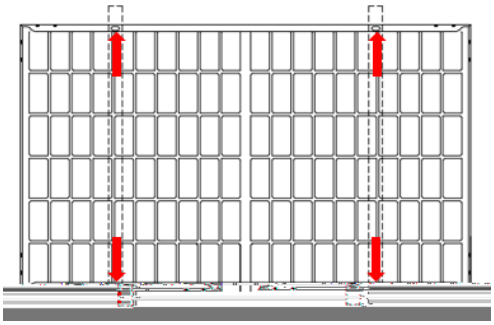
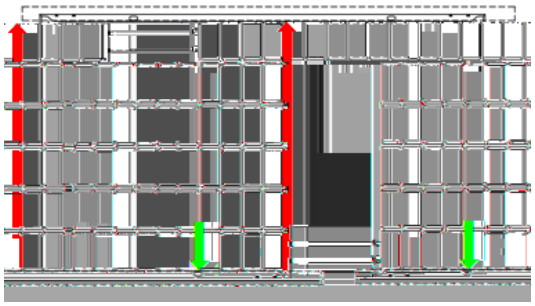
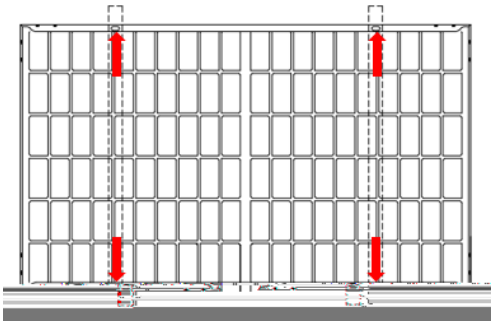
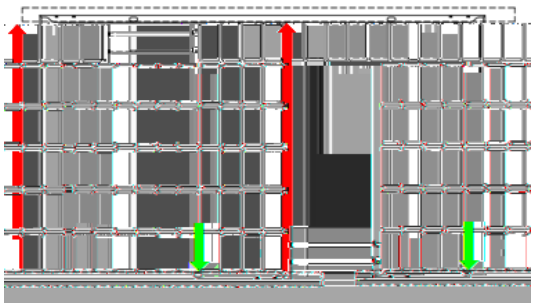
1.2mm

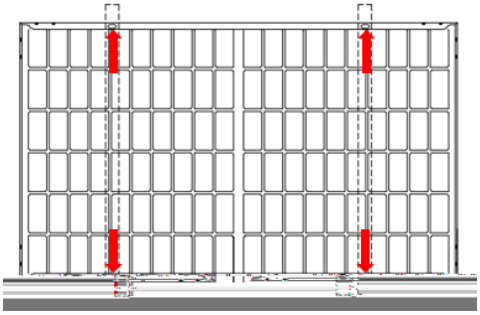
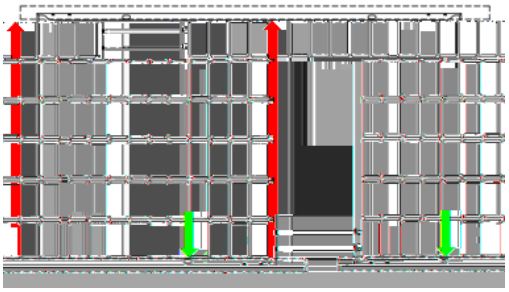
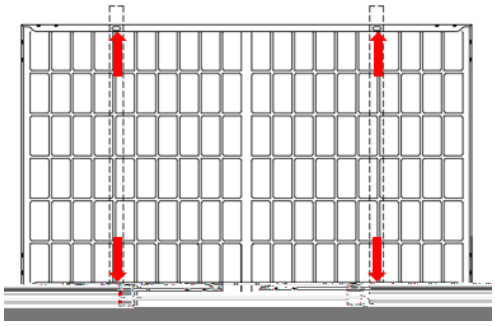
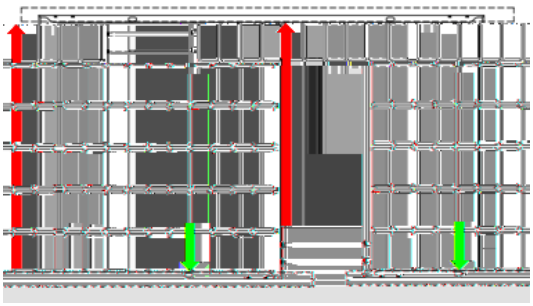
0.6mm 8

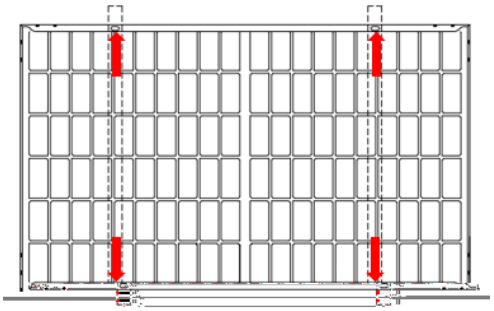
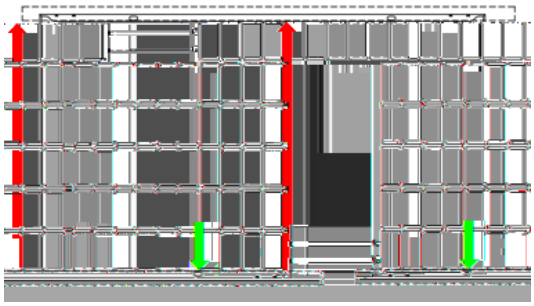
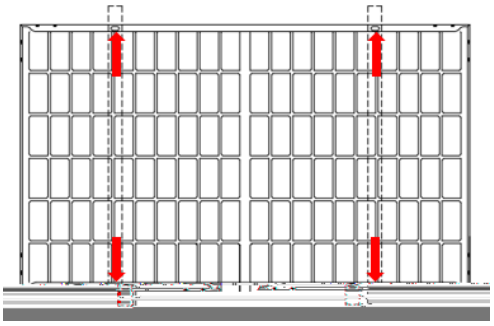
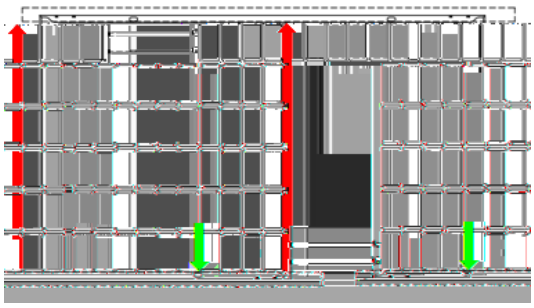
3 C

25mm

	L*W*H (mm)		
CHSM54N(DGT)(BLH)/F-BH CHSM54M(DG)/F-BH CHSM54N(DG)/F-BH CHSM54M(DGT)/F-BH CHSM54N(DGT)/F-BH CHSM54M(DG)/F-HC CHSM54N(DG)/F-HC	1722*1134*30	 4 (990mm	+5400Pa -2400Pa
		 4 (990mm	+3600Pa -2400Pa
CHSM54RNs(DG)(BLH)/F-BH CHSM54RNs(DGT)(BLH)/F-BH CHSM54RNs(DG)/F-BH CHSM54RNs(DGT)/F-BH CHSM54RNs(DG)/F-HC	1762*1134*30	 4 (1100mm	+5400Pa -2400Pa
		 4 (1100mm	+3600Pa -2400Pa

	L*W*H (mm)		
CHSM60M(DG)/F-BH CHSM60N(DG)/F-BH CHSM60M(DGT)/F-BH CHSM60N(DGT)/F-BH CHSM60M(DG)/F-HC CHSM60N(DG)/F-HC	1755*1038*30	 4 (990mm	+5400Pa -2400Pa
		 4 (990mm	+3600Pa -2400Pa
	1903*1134*30 1908*1134*30	 4 (1100mm	+5400Pa -2400Pa
		 4 (1100mm	+3600Pa -2400Pa

	L*W*H (mm)		
CHSM60M(DG)/F-BH CHSM60N(DG)/F-BH CHSM60M(DGT)/F-BH CHSM60N(DGT)/F-BH CHSM60M(DG)/F-HC CHSM60N(DG)/F-HC	2172*1303*35	 4 (1400mm	+5400Pa -2400Pa
		 4 (1400mm	+3600Pa -2400Pa
CHSM66M(DG)/F-BH	2384*1303*35	 4 (1400mm	+5400Pa -2400Pa
		 4 (1400mm	+3600Pa -2400Pa

	L*W*H (mm)		
CHSM72M(DG)/F-BH	2094*1038*30 2094*1038*35	 4 (1300mm)	+5400Pa -2400Pa
		 4 (1300mm)	+3600Pa -2400Pa
CHSM48N(DGT)/F-BH CHSM72M(DG)/F-BH CHSM72N(DG)/F-BH CHSM72M(DGT)/F-BH CHSM72N(DGT)/F-BH CHSM72N(DG)/F-HC CHSM72RN(DG)/F-BH CHSM66RN(DG)/F-BH	2256*1133*35 2278*1134*30 2278*1134*35 2382*1134*30 2382*1134*35	 4 (1400mm	+5400Pa -2400Pa
		 4 (1400mm	+3600Pa -2400Pa

	L*W*H (mm)		

CHSM78M(DG)/F-BH
CHSM7

	L*W*H (mm)	3	4	5	6
CHSM54N(DGT)(BLH)/F-BH CHSM54M(DG)/F-BH CHSM54N(DG)/F-BH CHSM54M(DGT)/F-BH CHSM54N(DGT)/F-BH CHSM54M(DG)/F-HC CHSM54N(DG)/F-HC	1722*1134*30	+3600Pa/-2400Pa			

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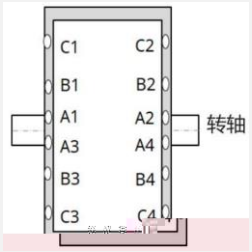
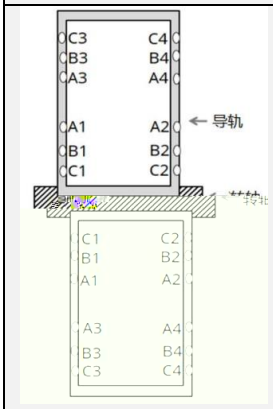
		L*W*H (mm)			
 1P	CHSM66M(DG)/F-BH	2384*1303*35	NEXTracker	400mm M6 +M6 (16mm)	+2100Pa/ -2100Pa
	CHSM72M(DG)/F-BH CHSM72N(DG)/F-BH CHSM72M(DGT)/F-BH CHSM72N(DGT)/F-BH CHSM72N(DG)/F-HC	2278*1134*30 2278*1134*35	NEXTracker	400mm M6 +M6 (16mm)	+2100Pa/ -2100Pa
				790mm M6 +M6 (16mm)	+3200Pa/ -2400Pa
		2278*1134*30	Arctech	50*1.5*450 (* * /mm) 400mm M6 +M6 (16mm)	+1800Pa/ -1800Pa
		2278*1134*30	Arctech	50*1.5*1450 (* * /mm) 1400mm M8 +M8 (16mm)	+3200Pa/ -2400Pa
		2278*1134*30	Soltec	50*1.5*1450 (* * /mm) 400+1400mm M6 +M6 (16mm)	+2800pa/- 2400pa
		2278*1134*30 2278*1134*35	PVH	80*1.5*428 (* * /mm) 400mm M6 +M6 (16mm)	+1800Pa/ -1800Pa
 2P	CHSM72M(DG)/F-BH CHSM72N(DG)/F-BH CHSM72M(DGT)/F-BH CHSM72N(DGT)/F-BH CHSM72N(DG)/F-HC	2278*1134*30 2278*1134*35	Arctech	80*1.8*3808 (* * /mm) 1400+1400mm M6 +M6 (=16mm)	+2600Pa/ -2200Pa

(1P 400

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ASTRONERGY

-36 ~ -40	1.25

STC 1000W/m² AM1.5

25

Isc Voc Pmpp

C_{voc}=1- $_{Voc}$ x 25- T_{min}

C_{voc} $_{Voc}$ (%/°C)

T_{min} (°C)

STC

STC

1.25

5

1.25 1.56

N*V_{oc}* C_{voc}

5

N V_{oc}

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
-26 ~ -30	1.21
-31 ~ -35	1.23

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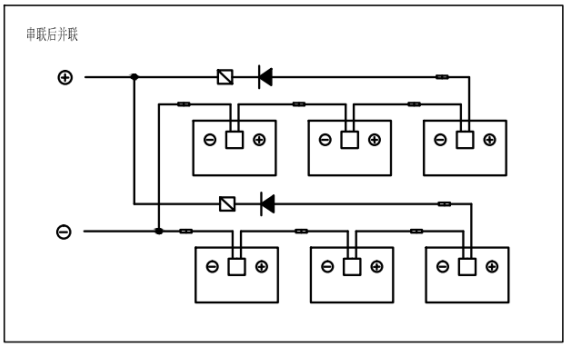

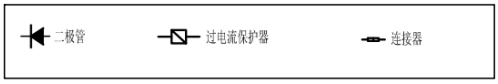

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PV

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PV

10V

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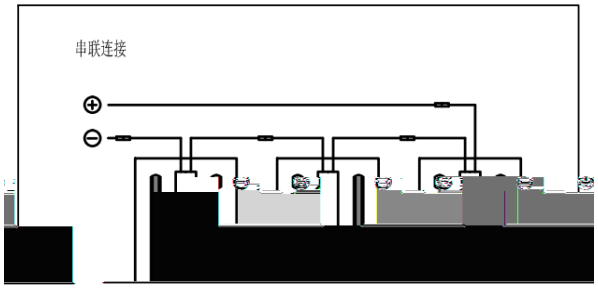

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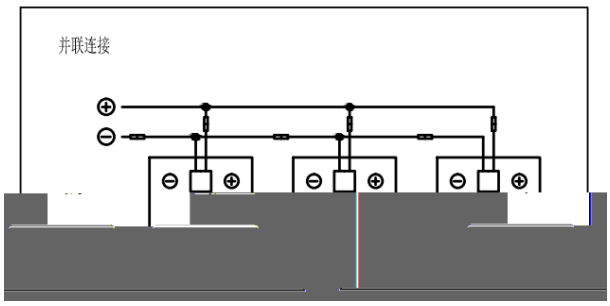

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4mm² 12 AWG

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

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