

In order to guarantee safe operation and safe use,
be sure to comply with the following content

1	JMPV-HM6VHBM2/72-440(R)
2	JMPV-HM6VHBM2/72-445(R)
3	JMPV-HM6VHBM2/72-450(R)
4	JMPV-HM6VHBM2/60-365(R)
5	JMPV-HM6VHBM2/60-370(R)
6	JMPV-HM6VHBM2/60-375(R)
7	JMPV-XV2/72-540(R)
8	JMPV-XV2/72-545(R)
9	JMPV-XV2/72-550(R)
10	JMPV-XV2/54-405(R)
11	JMPV-XV2/54-410(R)
12	JMPV-TV2/66-650(R)
13	JMPV-TV2/66-655(R)
14	JMPV-TV2/66-660(R)
15	JMPV-TV2/60-590(R)
16	JMPV-TV2/60-595(R)
17	JMPV-TV2/60-600(R)
18	JMPV-HM6VBM2/72-400(R)
19	JMPV-HM6VBM2/72-405(R)
20	JMPV-HM6VBM2/72-410(R)

2 Please read this manual carefully before installing and using the modules. If any abnormal conditions are found during the installation process, please stop the construction immediately and contact the dealer or our company.

3 Please do not decompose or modify the solar module, and do not loosen or remove the screws.

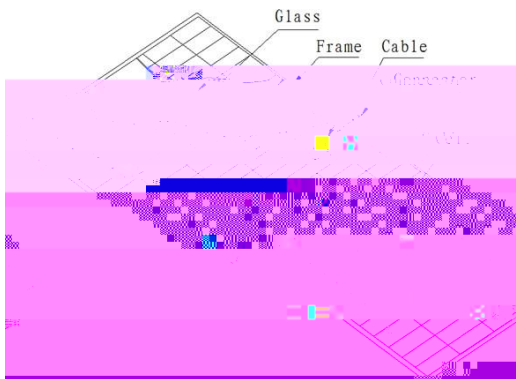
4 Please operate in strict accordance with the installation manual. Our company is not responsible for any defective modules caused by operation problems.

5 For the operation of electrical connection, please carry out according to the provisions of relevant laws and regulations. In addition, electrical connection operations should be performed by personnel with relevant electrical qualifications.

6 If the system voltage is set to $\geq 600\text{V}$, please follow the safety regulations of electrical appliances.

7 If you have any questions about this product, please contact our sales department.

8 Without notice, our company has the right to modify the specifications of the modules and the contents of the installation manual. Please understand.



(1) Solar modules are heavy objects. Please ask 2 or more workers to carry them.

(2) Solar modules generate electricity by receiving sunlight or artificial light. When generating electricity, please do not connect the positive and negative poles of the module to cause short circuit, which will produce electric arc or spark, there is a risk of electricity leakage and fire.

(3) Please do not remove the wiring terminals when the solar modules are powered or generated.

(4) High voltage and large current will be generated in the process of solar module power generation. If mishandled, injuries can be life-threatening.



Under normal circumstances, please wear safety helmet, insulating



TYPE	(Pmax)	(Vmpp)	(Impp)	(Voc)	(Isc)
JMPV-HM6VHBM2/72-440(R)	440	41.13	10.70	49.13	11.45
JMPV-HM6VHBM2/72-445(R)	445	41.36	10.76	49.38	11.52
JMPV-HM6VHBM2/72-450(R)	450	41.59	10.82	49.63	11.59
JMPV-HM6VHBM2/60-365(R)	365	34.21	10.67	40.86	11.42
JMPV-HM6VHBM2/60-370(R)	370	34.42	10.75	41.13	11.50
JMPV-HM6VHBM2/60-375(R)	375	34.66	10.82	41.40	11.58
JMPV-XV2/72-540(R)	540	42.06	12.84	50.24	13.69
JMPV-XV2/72-545(R)	545	42.25	12.90	50.40	13.77
JMPV-XV2/72-550(R)	550	42.44	12.96	50.63	13.83
JMPV-XV2/54-405(R)	405	31.52	12.85	37.45	13.77
JMPV-XV2/54-410(R)	410	31.74	12.92	37.75	13.83
JMPV-TV2/66-650(R)	650	38.15			

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Please do not tread on the solar module. In addition, the glass surface attached to the fall of dirty things, please wash with water. Do not use hard objects such as brushes.
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The following installation screws are recommended. (Recommended fixture mounting torque: 16N.m)

1. Bolt and nut

Material: 304 Stainless steel, bolt M8 20mm, nut M8

2. Washer

Material: 304 Stainless steel, M8 (inner diameter 8.5/ outer diameter 15.5mm), thickness: 1.6 mm

3. Spring washer

Material: 304 Stainless steel, M8 (inner diameter 8.5/ outer diameter 15.5mm), thickness: 1.6 mm

2. For installation in severe areas, use electrical corrosion resistant materials between aluminium frames and supports to prevent electrical corrosion.

The method of fixing the long side frame of a module with a fixture is shown in figure 5-a.

The specifications of the fixture are as follows:

Material: more than 3.3 mm thickness of aluminium alloy products.

Fixture width: 60 mm

Press width: 12 mm above

Fixed method: it is recommended to use the M8 bolts to fixed

3. Please do not allow the fixture to contact the glass. In addition, the fixture strength used must meet the module load performance.

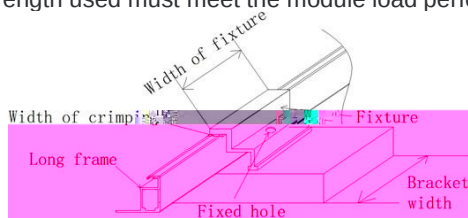


Figure 5-a Support is vertical to the longside frame

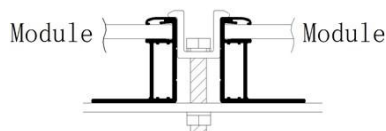
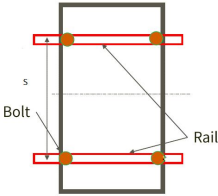


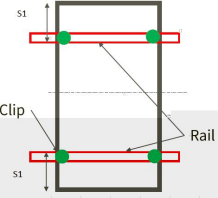
Figure 5-b Intermediate fixture

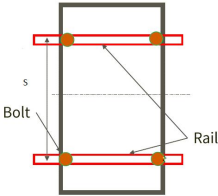
1. The installation of the long side frame of the module vertical to the support is shown in Figure 5-a, and the bearing width of the support should be more than 10mm during installation. In addition, the fixed position of the module fixture is shown in Figure 5-a1, each place is provided with one fixed point, six fixed points in total. (Recommended fixture mounting torque: 16N.m - use M8 bolts)

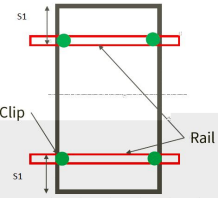
2. The installation of intermediate fixture is shown in Figure -b. (Recommended fixture mounting torque: 16N.m - use M8 bolts)

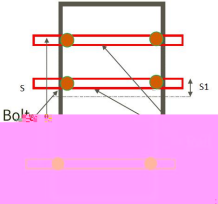
3. The mounting method is designed to allow module positive loading of 3600 Pa and negative loading of 1600Pa, safety factor is 1.5.

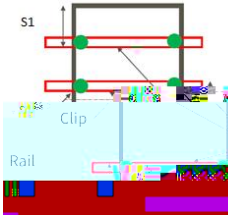
No.	Method	Installation Location		Design Load	Test Load	
1	Bolt	4		S=1300mm	3600/1600	5400/2400

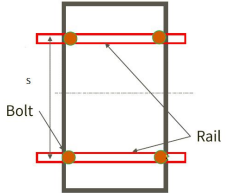
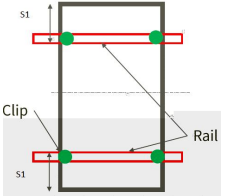
2	Fixture	4		S1=300-400mm	3600/1600	5400/2400
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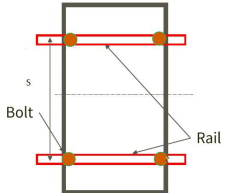
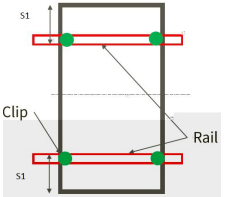
No.	Method	Installation Location		Design Load	Test Load	
1	Bolt	4		S=1280mm	3600/1600	5400/2400

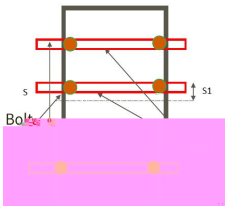
2	Fixture	4		S1=300-400mm	3600/1600	5400/2400
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No.	Method	Installation Location		Design Load	Test Load	
1	Bolt	6		S=1450mm S1=130mm	3600/1600	5400/2400

2	Fixture	6		S1=325mm S2=130mm	3600/1600	5400/2400
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No.	Method		Installation Location		Design Load	Test Load
1	Bolt	4		S=1130mm	3600/1600	5400/2400
2	Fixture	4		S1=300-400mm	3600/1600	5400/2400

No.	Method		Installation Location		Design Load	Test Load
1	Bolt	4		S=1400mm	3600/1600	5400/2400
2	Fixture	4		S1=440-530mm	3600/1600	5400/2400

No.	Method		Installation Location		Design Load	Test Load
1	Bolt	6		S=1500mm S1=150mm	3600/1600	5400/2400

Suitable specification

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Electrical cable, however, to be the one of cross section area smaller and
reasons the lead will be selected power (power generation
ection of the cable will be selected power (power generation
The above conditions are not only for installation of the "long gas
the term of the cable, but also for the quantity of the cable.
In the mechanical connection conditions of the installation, the
the cable, the cable should be parallel: column (please don't in parallel connection)
carry the cable, the cable should be parallel: column (please don't in parallel connection)
put the module in series and parallel connection.

• The cable is subjected to changes due to environmental factors such as the amount
of light and temperature, which will affect the rated output current and voltage. Therefore,
when determining the cable, it should be associated with the rated voltage, wire capacity, fuse
capacity and the cable output, the corresponding short circuit current and open circuit
voltage should be determined. The maximum open circuit voltage of the system
must be greater than the maximum system voltage of the module. $R \leq \frac{U_{oc}}{I_{sc}}$

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