
Adjust Rear Leg Bracket

M1C-H360/590

Installation Instructions

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Section 1 - Safety Instruction



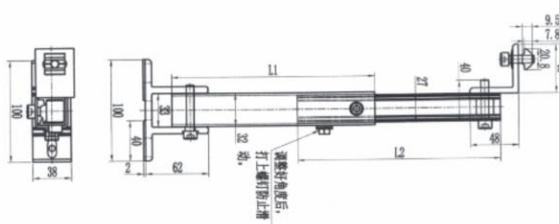
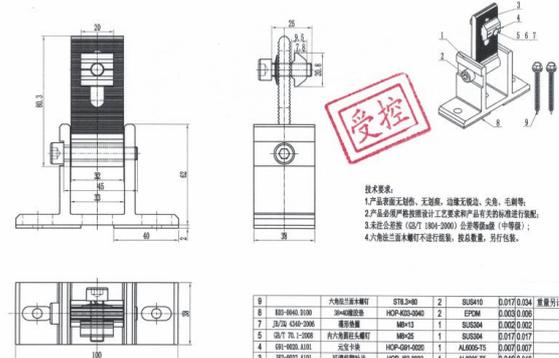
Warning

- 1) Two people are required to lift the module, handle them with care.
- 2) The products have sharp edge. Please wear gloves and protective clothing in order to prevent injury.
- 3) Check the components in the carton. Do not proceed in case shortage of components, ask your distributor for help.
- 4) Please follow up the steps, otherwise you might need to rework.
- 5) Fasten the bolts and clamps tightly in each step, otherwise the components and solar panels might fall.
- 6) Put the screws & nuts on clean place during installation. Clean them in case falling to ground.
- 7) After the installation and during daily using, should check the status of bolts/nuts after strong wind weather, and fasten them in case loosen.

Section 2 – Adjustable rear leg bracket introduction

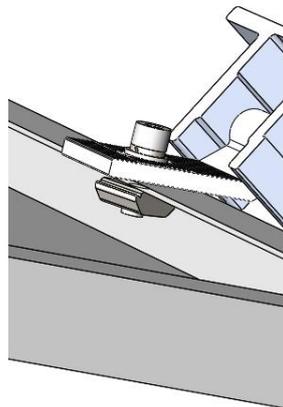
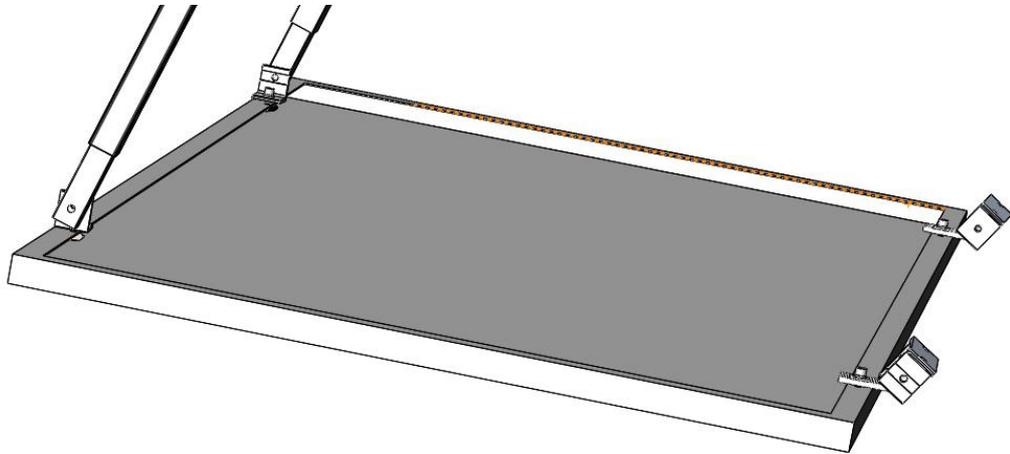
Product	Adjustable rear leg bracket (M1C-H360)
Application	Ground/Roof
Tilt Angle	15°-30°/30°-60°
Material	AL6005-T5/SUS304
Panel Layout	Landscape
Suitable Panel Width	≤1200mm
Design Standard	AS/NZS 1170, DIN 1055, JIS C8955: 2017, International Building Code IBC 200
G.W.	1.9kg/2.5kg

Parts Listⁱ

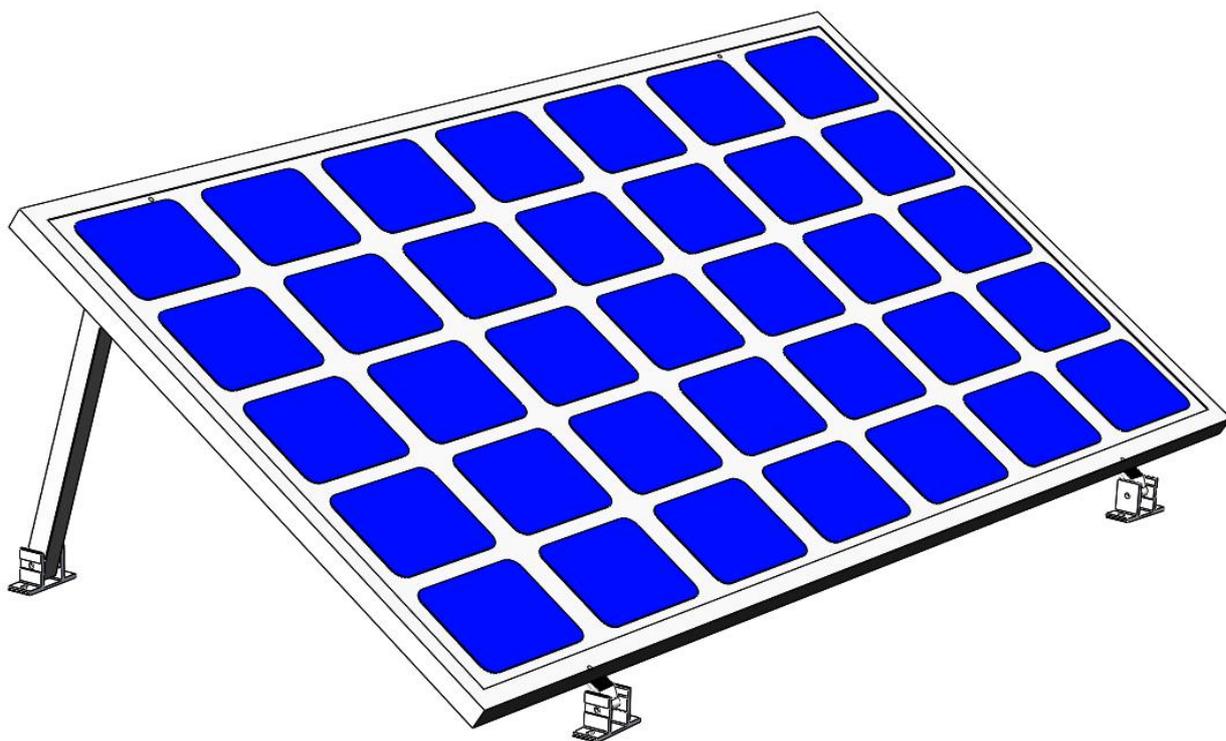
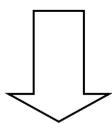
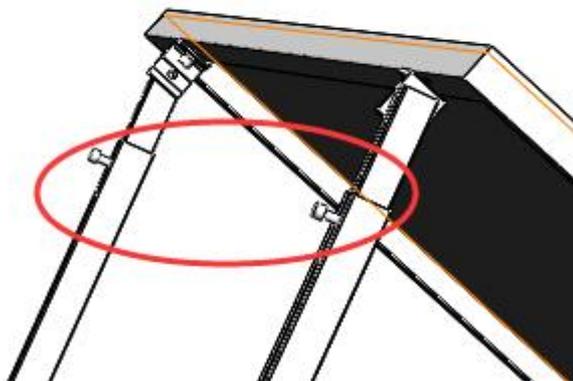
Item	Spec	Qty	Item	Spec	Qty
Rear leg	15° -30° : L1=L2=360mm 30° -60° L1=L2=660mm	2 pcs	Front leg	1250mm	2 pcs
 <p>Technical drawing of the rear leg assembly showing dimensions and assembly notes. The drawing includes a side view and a top view. Dimensions include 100, 10, 20, 22, 27, 40, 45, 48, 50, 52, 55, 58, 60, 62, 65, 68, 70, 72, 75, 78, 80, 82, 85, 88, 90, 92, 95, 98, 100, 102, 105, 108, 110, 112, 115, 118, 120, 122, 125, 128, 130, 132, 135, 138, 140, 142, 145, 148, 150, 152, 155, 158, 160, 162, 165, 168, 170, 172, 175, 178, 180, 182, 185, 188, 190, 192, 195, 198, 200, 202, 205, 208, 210, 212, 215, 218, 220, 222, 225, 228, 230, 232, 235, 238, 240, 242, 245, 248, 250, 252, 255, 258, 260, 262, 265, 268, 270, 272, 275, 278, 280, 282, 285, 288, 290, 292, 295, 298, 300, 302, 305, 308, 310, 312, 315, 318, 320, 322, 325, 328, 330, 332, 335, 338, 340, 342, 345, 348, 350, 352, 355, 358, 360, 362, 365, 368, 370, 372, 375, 378, 380, 382, 385, 388, 390, 392, 395, 398, 400, 402, 405, 408, 410, 412, 415, 418, 420, 422, 425, 428, 430, 432, 435, 438, 440, 442, 445, 448, 450, 452, 455, 458, 460, 462, 465, 468, 470, 472, 475, 478, 480, 482, 485, 488, 490, 492, 495, 498, 500, 502, 505, 508, 510, 512, 515, 518, 520, 522, 525, 528, 530, 532, 535, 538, 540, 542, 545, 548, 550, 552, 555, 558, 560, 562, 565, 568, 570, 572, 575, 578, 580, 582, 585, 588, 590, 592, 595, 598, 600, 602, 605, 608, 610, 612, 615, 618, 620, 622, 625, 628, 630, 632, 635, 638, 640, 642, 645, 648, 650, 652, 655, 658, 660, 662, 665, 668, 670, 672, 675, 678, 680, 682, 685, 688, 690, 692, 695, 698, 700, 702, 705, 708, 710, 712, 715, 718, 720, 722, 725, 728, 730, 732, 735, 738, 740, 742, 745, 748, 750, 752, 755, 758, 760, 762, 765, 768, 770, 772, 775, 778, 780, 782, 785, 788, 790, 792, 795, 798, 800, 802, 805, 808, 810, 812, 815, 818, 820, 822, 825, 828, 830, 832, 835, 838, 840, 842, 845, 848, 850, 852, 855, 858, 860, 862, 865, 868, 870, 872, 875, 878, 880, 882, 885, 888, 890, 892, 895, 898, 900, 902, 905, 908, 910, 912, 915, 918, 920, 922, 925, 928, 930, 932, 935, 938, 940, 942, 945, 948, 950, 952, 955, 958, 960, 962, 965, 968, 970, 972, 975, 978, 980, 982, 985, 988, 990, 992, 995, 998, 1000.</p>			 <p>Technical drawing of the front leg assembly showing dimensions and assembly notes. The drawing includes a side view and a top view. Dimensions include 100, 10, 20, 22, 27, 40, 45, 48, 50, 52, 55, 58, 60, 62, 65, 68, 70, 72, 75, 78, 80, 82, 85, 88, 90, 92, 95, 98, 100, 102, 105, 108, 110, 112, 115, 118, 120, 122, 125, 128, 130, 132, 135, 138, 140, 142, 145, 148, 150, 152, 155, 158, 160, 162, 165, 168, 170, 172, 175, 178, 180, 182, 185, 188, 190, 192, 195, 198, 200, 202, 205, 208, 210, 212, 215, 218, 220, 222, 225, 228, 230, 232, 235, 238, 240, 242, 245, 248, 250, 252, 255, 258, 260, 262, 265, 268, 270, 272, 275, 278, 280, 282, 285, 288, 290, 292, 295, 298, 300, 302, 305, 308, 310, 312, 315, 318, 320, 322, 325, 328, 330, 332, 335, 338, 340, 342, 345, 348, 350, 352, 355, 358, 360, 362, 365, 368, 370, 372, 375, 378, 380, 382, 385, 388, 390, 392, 395, 398, 400, 402, 405, 408, 410, 412, 415, 418, 420, 422, 425, 428, 430, 432, 435, 438, 440, 442, 445, 448, 450, 452, 455, 458, 460, 462, 465, 468, 470, 472, 475, 478, 480, 482, 485, 488, 490, 492, 495, 498, 500, 502, 505, 508, 510, 512, 515, 518, 520, 522, 525, 528, 530, 532, 535, 538, 540, 542, 545, 548, 550, 552, 555, 558, 560, 562, 565, 568, 570, 572, 575, 578, 580, 582, 585, 588, 590, 592, 595, 598, 600, 602, 605, 608, 610, 612, 615, 618, 620, 622, 625, 628, 630, 632, 635, 638, 640, 642, 645, 648, 650, 652, 655, 658, 660, 662, 665, 668, 670, 672, 675, 678, 680, 682, 685, 688, 690, 692, 695, 698, 700, 702, 705, 708, 710, 712, 715, 718, 720, 722, 725, 728, 730, 732, 735, 738, 740, 742, 745, 748, 750, 752, 755, 758, 760, 762, 765, 768, 770, 772, 775, 778, 780, 782, 785, 788, 790, 792, 795, 798, 800, 802, 805, 808, 810, 812, 815, 818, 820, 822, 825, 828, 830, 832, 835, 838, 840, 842, 845, 848, 850, 852, 855, 858, 860, 862, 865, 868, 870, 872, 875, 878, 880, 882, 885, 888, 890, 892, 895, 898, 900, 902, 905, 908, 910, 912, 915, 918, 920, 922, 925, 928, 930, 932, 935, 938, 940, 942, 945, 948, 950, 952, 955, 958, 960, 962, 965, 968, 970, 972, 975, 978, 980, 982, 985, 988, 990, 992, 995, 998, 1000.</p>		
Self-tapping Screws	St 6.3 *80	8 set	Self-tapping Screws	St 6.3 * 25	2 pcs
					

Section 3 - Installation Procedures

- ◆ Remove the pre-assembled front leg and rear leg, and remove the block on the upper rotating part, pass the bolt through the hole at the bottom of the module frame, the lock and fix it with the block.



- ◆ Turn over the module, be careful not to hit the module with the front and rear legs. Put the base flat on the roof, and adjust the length of the rear legs to make the assembly reach the target angle, and then lock the adjustment bolts of the rear legs so that the telescopic rod is no longer stretching.



Section 4 - Tips for Bolt Installation

Precautions for engineering installation dimensions

1. The specific dimensions of the engineering installation are subject to the engineering construction drawings. These installation instructions are for the purpose of explaining the installation method of the product only.

Precautions when installing stainless steel fasteners

1. Because stainless steel has good ductility, it is essentially different from carbon steel; improper use will cause the bolt and nut to be unscrewed after being matched. That is, "locking" is commonly known as "biting to death". The prevention of lockup mainly includes the following aspects:

Reduce friction coefficient:

1. Ensure that the thread surface is clean (such as no sand, debris);
2. It is recommended to coat the surface with water wax or add lubricant (such as butter, 40# engine oil) during installation;

Correct operation method:

1. It must be screwed perpendicular to the axis of the thread, and must not be inclined;
2. During the tightening process, the force must be uniform, and the tightening torque cannot exceed the specified safe torque value;
3. Use a torque wrench or socket wrench as much as possible, and avoid using an adjustable wrench or an electric wrench; when using an electric wrench, try to reduce the speed as much as possible.
4. Avoid using at high temperature, do not rotate quickly when using, avoid the temperature rising rapidly and cause locking; (such as using an electric wrench, etc.)

Bolt torque

SS304 (A2-70) Bolt torque recommendation table	
Bolt Specifications	Recommended torque value (N.M)
M8	8-10
M10	18-20
M12	50-55
M14	70-75
M16	90-95

Section 5 - After Installation

Check After Installation

It needs to check the condition of all the components and parts after finishing assembling of fixed mounting system:

- Check if there is damage
- Check if there is anything forget to assemble
- Check if all the bolts locked tightly
- Check if all the solar modules assembled in accordance
- Clean the project site after assembling



Warning: It needs to check structure condition of mounting system before wiring.

Before installing the micro inverters, connecting the cable or any other electric equipments, the solar bracket and solar panels shall be mounted to the guardrail safely.

Daily Maintenance

- Maintenance of connected bolts
- Check every bolt junctions once a year, tighten them if the junction is loosen

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