# EG4 BRIGHTMOUNT

**ADJUSTABLE GROUND MOUNT SYSTEM**

## PARTS

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Rack Rail</td>
<td><img src="image1.png" alt="Rack Rail" /></td>
</tr>
<tr>
<td>2</td>
<td>Mid Clamp</td>
<td><img src="image2.png" alt="Mid Clamp" /></td>
</tr>
<tr>
<td>3</td>
<td>End Clamp</td>
<td><img src="image3.png" alt="End Clamp" /></td>
</tr>
<tr>
<td>4</td>
<td>Mount Group</td>
<td><img src="image4.png" alt="Mount Group" /></td>
</tr>
<tr>
<td>5</td>
<td>Grounding Lug Group</td>
<td><img src="image5.png" alt="Grounding Lug Group" /></td>
</tr>
<tr>
<td>6</td>
<td>Grounding Clip</td>
<td><img src="image6.png" alt="Grounding Clip" /></td>
</tr>
<tr>
<td>7</td>
<td>Anchor Bolt M10*100</td>
<td><img src="image7.png" alt="Anchor Bolt" /></td>
</tr>
<tr>
<td>8</td>
<td>L Foot Group</td>
<td><img src="image8.png" alt="L Foot Group" /></td>
</tr>
<tr>
<td>9</td>
<td>Splice Connector and Bonding Jumper</td>
<td><img src="image9.png" alt="Splice Connector and Bonding Jumper" /></td>
</tr>
</tbody>
</table>
DIMENSIONS AND LAYOUT

ENGINEERING DRAWINGS

Max. panel width

Min. panel height

179.5 in. (456 cm)

44 in. (111.8 cm)

48 in. (121.9 cm)

33.5 in. (85 cm)

51.2 in. (130 cm)

19.7 in. (50 cm)

90.6 in. (230 cm)

25°

2 in. (5.0 cm)

18 in. (45.8 cm)

90.6 in. (230 cm)

45°

2.8 in. (7.0 cm)

15.7 in. (40 cm)

33.5 in. (85 cm)

15.7 in. (40 cm)

33.5 in. (85 cm)

19.7 in. (50 cm)
LAYOUT AND INSTALLATION

OVERALL LAYOUT

1) Rack Rail
2) Mid Clamp
3) End Clamp
4) Mount Group
5) Earth Lug Group
6) Anchor Bolt
7) L Foot Group
8) Splice Connector and Bonding Jumper

Tools needed:
- Gloves
- Drill
- Adjustable Wrench
- Tape Measure
- Drill Bit ½ in.
- Allen Wrench Set

Torque Recommendations:

<table>
<thead>
<tr>
<th>Bolt</th>
<th>Recommended Torque</th>
<th>Bolt</th>
<th>Recommended Torque</th>
<th>Bolt</th>
<th>Recommended Torque</th>
</tr>
</thead>
<tbody>
<tr>
<td>M8 bolt,</td>
<td>115 in. lbs.</td>
<td>M10 bolt,</td>
<td>140 in. lbs.</td>
<td>M8 bolt,</td>
<td>97 in. lbs.</td>
</tr>
<tr>
<td>M8 nut</td>
<td>(13 Nm)</td>
<td>M10 nut</td>
<td>(25.8 Nm)</td>
<td>N2 nut</td>
<td>(11 Nm)</td>
</tr>
</tbody>
</table>
A) Leg Group Assembly

Use M8*80 bolts, M8 spring washers, flat washers, and M8 nuts to install the U connectors as shown in the illustration to the right.

Use M8*65 bolts, M8 spring washers, flat washers, and M8 nuts to install the mount group as shown in the illustration to the left.

The adjustable leg is used to change the angle of the array. Adjustment instructions are on the following page.
Loosen set screws to adjust the angle of the array. Different angles correspond to the lengths provided in the chart below. The recommended torque for the set screws is 80 in. lbs. (9 Nm).

*Note: Both set screws must be secured to lock the adjustable leg in place.*

<table>
<thead>
<tr>
<th>Angle</th>
<th>25°</th>
<th>30°</th>
<th>35°</th>
<th>40°</th>
<th>45°</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length (L)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>21.8 in.</td>
<td>20.4 in.</td>
<td>18.9 in.</td>
<td>17.5 in.</td>
<td>16 in.</td>
</tr>
<tr>
<td></td>
<td>(55.4 cm)</td>
<td>(51.7 cm)</td>
<td>(48 cm)</td>
<td>(44.4 cm)</td>
<td>(40.7 cm)</td>
</tr>
</tbody>
</table>
Use M8*80 bolts, M8 spring washers, flat washers, and M8 nuts to install L feet as shown in the illustrations to the right.

Use the provided anchor bolts to secure mounting brackets to the concrete anchors.
B) Rail Assembly

Follow the diagrams to secure the rails to the previously installed L feet. Use the splice connectors to join rail sections together, leaving a 0.1 – 0.2 in. (3 – 5 mm) expansion gap between rail joints.

Completed rail assembly.
PV ATTACHMENT

Install PV modules using the end clamps and mid clamps along with the grounding clips to secure them to the mounting rails. Follow the steps illustrated to the right for proper installation.

Install grounding lugs on the end of the rails to attach a grounding wire for proper array protection.