



Hebei Longze Metal Products Manufacturing Co., LTD

Technical Data Sheet: Solar Panel Mounting Hardware (Clamps & Fixings)

Product Overview

Brand: Longze Fasteners

Product Name: Solar PV Mounting Hardware / Mid & End Clamps / Inter-Clamps

International Standards: AS/NZS 1170.2 / JIS C 8955 / DIN 6923

Material Grade: DIN 6923 / ISO 4161 / ASME B18.16.4 (Serrated Flange Nuts)

Compatible Fasteners: DIN 6923 / ISO 4161 / ASME B18.16.4 (Serrated Flange Nuts)

Application Scenarios: Securing Solar PV modules to rails on residential rooftops, carports, and utility-scale ground mounts.

Dimensional & Technical Specifications

Technical Specifications

<i>Component Item</i>	<i>Applicable Module Thickness</i>	<i>Screw Specification</i>	<i>Material</i>
<i>Universal Mid Clamp</i>	<i>30 / 35 / 40 mm</i>	<i>M8 * 40 / 45 / 50 mm</i>	<i>AL6005-T5</i>
<i>Adjustable End Clamp</i>	<i>30 / 32 / 35 / 40 mm</i>	<i>M8 * 25 / 30 mm</i>	<i>AL6005-T5</i>
<i>T-Bolt / Hex Bolt</i>	<i>Standard Rail Slots</i>	<i>M8 * Length (Custom)</i>	<i>SUS304 (A2-70)</i>
<i>Flange Nut</i>	<i>DIN 6923 Standard</i>	<i>M8 / M10</i>	<i>SUS304 / Carbon Steel</i>

***Note: Black anodized finish is available for "All-Black" module aesthetics.**

Mechanical & Performance Properties

Property Item	Specification (AL6005-T5)	Specification (SUS304)
Tensile Strength (\$R_m\$)	≥ 260 MPa	≥ 700 MPa (A2-70)
Yield Strength (\$R_{p0.2}\$)	≥ 240 MPa	≥ 450 MPa
Hardness	≥ 85 HW	≤ 200 HBW
Surface Treatment	Anodized (Clear/Black) ≥ 12 μm	Passivated / Natural
Design Wind Load	Up to 2400 Pa	Up to 5400 Pa (System Load)

"Recommended with: Longze Solar Mounting Fasteners".

Eric's Professional Advice:

1.Galvanic Corrosion Prevention: Our mounting hardware uses SUS304 bolts and AL6005-T5 clamps. This combination is the industry standard for preventing electrochemical reactions in outdoor environments, ensuring 25 years of structural integrity.

2.Serrated Security: Always use our DIN 6923 Serrated Flange Nuts with the rail system. The serrations "bite" into the aluminum profile, providing a superior anti-vibration lock that won't loosen under thermal expansion.

3.Efficiency: All Longze hardware kits come pre-assembled (Clamp + Bolt + Nut). This reduces on-site labor costs and prevents the loss of small parts during installation at heights.

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