



Hebei Longze Metal Products Manufacturing Co., LTD

Technical Data Sheet: Solar PV Module Mid Clamps

Product Overview

Brand: Longze Fasteners

Product Name: Solar PV Mid Clamp / Universal Inter-Clamp

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

Material Grade: Aluminum Alloy AL 6005-T5 (High Strength)

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

Surface Treatment: Clear or Black Anodized, Thickness $\geq 12\mu\text{m}$

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

Dimensional & Technical Specifications

Technical Specifications

<i>Applicable Panel Thickness</i>	<i>Clamp Length</i>	<i>Screw Specification</i>	<i>Material</i>
30 mm	40 / 50 / 60 mm	M8 * 40 mm	AL 6005-T5
35 mm	40 / 50 / 60 mm	M8 * 45 mm	AL 6005-T5
40 mm	40 / 50 / 60 mm	M8 * 50 mm	AL 6005-T5
45 mm	40 / 50 / 60 mm	M8 * 55 mm	AL 6005-T5

***Note: Custom lengths and black anodized versions are available for aesthetic consistency.**

Mechanical & Performance Properties

<i>Property Item</i>	<i>Specification / Value</i>	<i>Standard</i>
<i>Tensile Strength (\$R_m\$)</i>	$\geq 260 \text{ MPa}$	<i>ASTM B221</i>
<i>Yield Strength (\$R_{p0.2}\$)</i>	$\geq 240 \text{ MPa}$	<i>ASTM B221</i>
<i>Hardness</i>	$\geq 85 \text{ HW (WebsterHardness)}$	-
<i>Anodized Thickness</i>	<i>AA Class 10 / Class 15</i>	<i>ISO 7599</i>
<i>Wind Load Resistance</i>	<i>Up to 60 m/s (System Tested)</i>	<i>AS/NZS 1170.2</i>

"Recommended with: Longze Solar Mounting Fasteners".

Eric's Professional Advice:

1.Anti-Vibration Security: Our mid clamps are always paired with DIN 6923 Serrated Flange Nuts. The serrations "bite" into the clamp surface to prevent loosening caused by wind-induced vibrations and thermal expansion.

2.Structural Stability: We use AL 6005-T5 instead of cheaper 6063 alloys. This ensures the clamp wings won't deform or snap even under extreme snow loads or during high-torque installation.

3.Installation Efficiency: All Longze mid clamps come as pre-assembled kits (Clamp + Bolt + Slider Nut). This reduces on-site installation time by 30% and prevents the loss of small parts.

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