



Hebei Longze Metal Products Manufacturing Co., LTD

Technical Data Sheet: High-Efficiency Monocrystalline Solar Panels

Product Overview

Brand: Longze Fasteners

Product Name: High-Efficiency Monocrystalline Silicon Solar PV Modules

Cell Type: Grade A Monocrystalline (182mm / 210mm Large Waist Design)

Main Features: PERC / TopCon Technology, Anti-PID, Low Light Performance.

Application Scenarios: Utility-Scale Ground Mounts, Industrial & Commercial Rooftops, Hybrid Solar Systems.

Electrical Specifications (STC: 1000W/m², 25°C)
Technical Specifications

<i>Model Series</i>	<i>Power Output (Pmax)</i>	<i>Module Efficiency</i>	<i>Open Circuit Voltage (Voc)</i>	<i>Short Circuit Current (Isc)</i>
<i>LZ-M10-450W</i>	<i>450W</i>	<i>21.3%</i>	<i>41.5V</i>	<i>13.6A</i>
<i>LZ-M10-550W</i>	<i>550W</i>	<i>21.5%</i>	<i>50.1V</i>	<i>14.0A</i>
<i>LZ-G12-670W</i>	<i>670W</i>	<i>21.6%</i>	<i>46.1V</i>	<i>18.5A</i>

***Note: Power tolerance 0 ~ +5W is guaranteed for all modules.**

Mechanical & Physical Properties

<i>Property Item</i>	<i>Specification / Value</i>	<i>Standard</i>
<i>Front Glass</i>	<i>3.2 mm High Transmission, Tempered Glass</i>	<i>-</i>
<i>Frame</i>	<i>Anodized Aluminum Alloy (Black/Silver)</i>	<i>AL6005-T5 Compatible</i>
<i>Junction Box</i>	<i>IP68 Rated (3 Bypass Diodes)</i>	<i>IEC Standard</i>
<i>Connector</i>	<i>MC4 Compatible</i>	<i>-</i>
<i>Mechanical Load</i>	<i>Front: 5400 Pa / Rear: 2400 Pa</i>	<i>Snow & Wind Load</i>

"Recommended with: Longze Solar Mounting Fasteners".

Eric's Professional Advice:

1.System Integrity: To ensure the 25-year structural warranty, we strongly recommend using Longze A4-80 Stainless Steel Mid/End Clamps to secure these modules.

2.Maintenance: For installations with low tilt angles, use our Solar Water Drainage Clips to prevent dust accumulation at the bottom frame, which can increase power yield by up to 10%.

3.Durability: Our modules are salt-mist and ammonia resistant, making them ideal for coastal projects when paired with Longze HDG Ground Screws.

Contact Longze Fasteners:

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