



## **Hebei Longze Metal Products Manufacturing Co., LTD**

### **Technical Data Sheet: Solar PV Nylon Wing Nuts**

#### **Product Overview**

**Brand:** Longze Fasteners

**Product Name:** Solar PV Wing Nuts / Insulated Wing Nuts

**Material Grade:** High-Quality Nylon PA66 (UV-Stabilized)

**Main Features:** Non-conductive (Insulated), Corrosion-Proof, Tool-free Installation, Lightweight.

**Application Scenarios:** PV module cable management, lightweight racking assembly, battery storage enclosures, and coastal solar projects where metallic corrosion must be avoided.

## Dimensional Specifications (Metric Series)

### Technical Specifications

<i>Size (d)</i>	<i>Pitch (P)</i>	<i>Wing Span (W)</i>	<i>Total Height (H)</i>	<i>Material</i>
M4	0.7 mm	18 - 20 mm	8 - 10 mm	Nylon PA66
M5	0.8 mm	22 - 24 mm	10 - 12 mm	Nylon PA66
M6	1.0 mm	26 - 28 mm	12 - 14 mm	Nylon PA66
M8	1.25 mm	30 - 32 mm	14 - 16 mm	Nylon PA66
M10	1.5 mm	34 - 36 mm	16 - 18 mm	Nylon PA66

**\*Note: Custom colors (Black/White/Grey) and reinforced glass-fiber versions are available.**

## Physical & Technical Properties

<i>Property Item</i>	<i>Specification / Value</i>	<i>Standard</i>
<i>Working Temperature</i>	<i>-40°C to +105°C</i>	<i>Continuous Use</i>
<i>Flammability Rating</i>	<i>UL94-V2 / UL94-V0</i>	<i>Fire Safety</i>
<i>Dielectric Strength</i>	<i>≥ 50 kV/mm</i>	<i>Electrical Insulation</i>
<i>UV Resistance</i>	<i>Excellent (F1 Rated)</i>	<i>ASTM G154</i>
<i>Tensile Strength</i>	<i>60 - 80 MPa</i>	<i>ISO 527</i>

**"Recommended with: Longze Solar Mounting Fasteners".**

*Eric's Professional Advice:*

*1. Electrical Safety: For PV projects near sensitive electronic components, using Nylon PA66 wing nuts effectively prevents electrical leakage and galvanic corrosion between different metal parts.*

*2. UV Protection: Our wing nuts are enriched with UV-stabilizing agents, ensuring they won't become brittle or crack even after 20 years of exposure to intense sunlight.*

*3. Installation: These are designed for hand-tightening only. For heavy-duty structural joints, please refer to our A4-80 Stainless Steel Hex Nut series.*

*Contact Longze Fasteners:*

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