

## **Composite Solar Photovoltaic (PV) Module Frame Replacing Aluminum Solar PV Module Frame**



The aluminum solar PV module frame constitutes a significant portion, accounting for 9-10% of the total cost of solar PV module manufacturing.

Composite Solar PV Module Frame, offering unmatched mechanical strength, non-conductive properties and lower cost, are the ideal choice for reducing the overall cost of solar PV module manufacturing.

### **COMPOSITE SOLAR PV MODULE FRAME – THE WORLD LEADER**

- Manufactured by superior ultraviolet (UV) resistant polyurethane resin and fiberglass
- **World-Class Non-Surface UV Coating Technology**
- **40-year service life quality assurance**
- **ASTM G154-2016 - 8,000 hours UV accelerated weathering certification**
- Capable of cutting and drilling during installation as needed
- **Tested engineering mechanical properties:**
  - Bend strength - 5 times stronger than aluminum frame
  - Tensile strength - 4 times stronger than aluminum frame
  - Stiffness strength - 5 times stronger than aluminum frame
- **Non-Combustible Characteristics**
- **Non-Conductive**
- Lightning strike resistant
- Corrosion resistant
- Saltwater resistant – **Excellent for floating PV and offshore PV applications**
- **Less weight** - 65% of the weight of aluminum frame
- Reducing carbon emissions by 75%+
- **Lower Cost**

PY's Composite Solar PV Module Frame is engineered and manufactured to replace aluminum solar PV module frames, providing USA-certified UV weathering resistance for a 40-year service life. The composite PV module frame, with its lower cost, lightweight, excellent engineering, mechanical properties, and various other advantages, significantly outperforms aluminum PV module frame offerings.

**Inquires for custom solar PV module frame manufacturing are invited.**

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