

Solar Carport Specification

1. Structural Design Requirements

- Frame Type: 3 +1 High Portrait L-Frame
- Post-to-Post Span (East-West): 26' – 27'
- Span Cover (North-South): 19' – 21'
- Ground Clearance: Minimum 14'
- Foundation Type: Concrete Pier or Spread Footer
- Purlin Length: 27" – 36" spans
- Dimensions of the Array: 110' x 24'

2. Solar Module Configuration

- Module Orientation: Portrait (4 modules high)
- Module Tilt: 7 degrees
- Azimuth: South-facing
- Module Compatibility: All brands – 60, 72, and 96 Cell

3. Environmental Load Requirements

- Wind Load: Up to 170 MPH
- Snow Load: Up to 80 PSF

4. Material Specifications

- Composition: Galvanized Steel (G-90 grade) - Posts, Trusses, Purlins
- Manufacturing Origin: Made in USA
- Steel Certifications: Must be provided with proposal

5. Warranty and Compliance

- Warranty: Minimum 25-Year Structural Warranty
- Certifications Required:
 - Steel mill certifications
 - Structural engineering stamps
 - Compliance with local building codes and permitting requirements