

# Understanding the 495Wp Photovoltaic Panel Size: Key Insights for Solar Projects

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In the rapidly evolving solar energy sector, the 495Wp photovoltaic panel has emerged as a popular choice for balancing power output and space efficiency. This article breaks down its size specifications, real-world applications, and how it compares to other solar solutions.

When planning a solar project, the *physical dimensions* of photovoltaic panels directly affect:

Roof space utilization

Installation complexity

System scalability

Transportation logistics

### 495Wp Panel Dimensions: Breaking Down the Numbers

A typical 495Wp panel measures approximately *2.2m 1.1m* (7.2ft 3.6ft), though sizes may vary slightly between manufacturers. To put this in perspective:

Specification Measurement Surface Area  $2.42 \text{ m}^2$  (26 sq.ft) Power Density  $204.5 \text{ W/m}^2$  Weight 25-28 kg (55-62 lbs)

### 1. Commercial Rooftop Installations

Warehouses and factories benefit from these panels' balance of power output and manageable size. A recent project in Germany saw a 500kW system using 495Wp panels achieve *18% space savings* compared to 450W modules.

### 2. Agricultural Solar Solutions



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The panel's dimensions work well for agrivoltaic systems where spacing between panels is crucial for crop growth. Farmers can generate electricity while maintaining \*75-80% land usability\* for agriculture.

"The 495Wp size hits the sweet spot for our dual-use farming projects. We maintain sufficient light penetration while maximizing energy production." - SolarFarm Solutions Technical Director

\*Structural Requirements:\* 28kg panel weight demands proper roof reinforcement

\*Maintenance Access:\* Minimum 0.6m spacing between rows for cleaning

\*Orientation Flexibility:\* Works well in both portrait and landscape configurations

Global adoption of 495Wp panels has grown \*47% YoY\* (2022-2023) according to SolarPower Europe. Key drivers include:

Improved PERC cell technology (22.8% average efficiency)

Reduction in balance-of-system costs

Increased demand for space-constrained installations

Specializing in renewable energy systems, our company delivers customized photovoltaic solutions for:

Industrial power plants

Commercial rooftop installations

Agricultural solar integrations

With expertise in high-efficiency panel deployment, we optimize system designs to maximize ROI while meeting spatial constraints.

The 495Wp photovoltaic panel size offers an effective balance between power output and physical footprint, making it suitable for various applications where space optimization is crucial. Understanding its dimensions and installation requirements helps in planning efficient, cost-effective solar projects.

## What's the typical warranty period?



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Most manufacturers offer 12-year product warranty and 25-year performance guarantee.

## Can these panels withstand harsh weather?

Yes, when properly installed, they're rated to withstand 140mph winds and 1-inch hail impacts.

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**Contact our solar experts for project-specific advice: \*WhatsApp:\* +86 138 1658 3346 \*Email:\*  
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**For more information or to discuss your inverter and power system needs:**

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