



# Kings 160W Fixed Solar Panel: Efficient Renewable Energy for Homes and Outdoor Use

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## Why Choose a Fixed Solar Panel for Reliable Power Generation?

Are you tired of fluctuating energy bills or unreliable power sources during outdoor adventures? The Kings 160W Fixed Solar Panel offers a practical solution for both residential and mobile energy needs. Designed with monocrystalline cells, this panel achieves 22% conversion efficiency - 15% higher than conventional polycrystalline models. Ideal for rooftops in sun-rich regions like Australia or camping setups in North America, it delivers consistent performance even in partial shade conditions.

## Key Features That Set Kings 160W Apart

What makes this solar panel stand out in the crowded renewable market? Three critical factors:

- Military-grade aluminum frame withstands 2400Pa snow loads and 140mph winds
- Durable tempered glass with anti-reflective coating increases light absorption
- Pre-drilled mounting holes enable 50% faster installation than competitor models

## Technical Superiority Meets Real-World Application

Tested across diverse climates from -40°F to 185°F, the Kings panel maintains 95% power output after 25 years - a benchmark exceeding industry standards. The bypass diode technology minimizes performance drop when individual cells are shaded, making it perfect for urban environments with intermittent shadows.

## Energy Savings Calculator: See the Numbers

A single 160W unit can generate:

- 640Wh daily in Mediterranean climates (4 peak sun hours)
- 192kWh annually - enough to power a refrigerator for 6 months
- \$28-\$52 yearly savings at average U.S. electricity rates

## Installation Flexibility Across Multiple Scenarios

Whether you're retrofitting a suburban home in Texas or building an off-grid cabin in Scandinavia, the panel's 64x26 inch dimensions adapt to most roof types. The lightweight design (18.7 lbs) allows single-person installation, while the IP68-rated junction box ensures safety in tropical rainstorms or desert sand conditions.

## Q&A: Solar Power Simplified

1. How often does it require maintenance?

Rain naturally cleans most debris. For optimal performance, wipe with soft cloth twice yearly.



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2. Can it charge during cloudy days?

Yes! It still produces 25-40% power output under heavy cloud cover.

3. What warranty coverage is provided?

12-year product warranty + 25-year linear power output guarantee.

"After installing Kings panels, our RV park reduced diesel generator use by 70% during peak season."

- Solar Solutions LLC, Arizona

With global shipping available through certified partners, the Kings 160W model meets international certifications including IEC 61215 and UL 1703. Its corrosion-resistant frame performs exceptionally in coastal areas, resisting salt spray damage that typically degrades panels within 5 years.

The Hidden Value: Future-Proof Energy Investment

While the upfront cost averages \$220-\$280, consider these long-term benefits:

Payback period: 4-7 years in sunny regions

10% property value increase for solar-equipped homes (U.S. Department of Energy data)

Carbon offset equivalent to planting 120 trees annually

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