



# Solar Water Fountain Pump with Battery Backup: Sustainable Garden Beauty Unleashed

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### Say Goodbye to Power Outages and Sky-High Energy Bills

Imagine a garden water feature that flows day and night, rain or shine, without draining your electricity. Traditional pumps cost \$50-\$150 annually in energy bills and fail during blackouts. What if there was a solution combining solar power with battery backup? Our solar water fountain pump with integrated battery storage addresses these pain points while enhancing outdoor aesthetics.

### How This Innovation Transforms Water Features

Using monocrystalline solar panels (22% efficiency) and lithium-ion batteries, this system operates for 8-12 hours daily. During sunny days, it directly powers the pump while charging the battery. At night or on cloudy days, the battery backup takes over automatically. In Arizona tests, units maintained continuous flow even during monsoon seasons.

### Key Features That Redefine Reliability

- 18W solar panel charges in 4 hours (full sun)
- 10,000mAh battery extends operation by 4-6 hours
- Weather-resistant casing (IP68 rating)
- Adjustable flow rates from 200-800 L/hour

### Why California Homeowners Are Switching

With 70% of California adopting renewable solutions, these pumps reduce grid dependence while complying with water conservation laws. The solar-powered pump recirculates existing water, minimizing waste. One Sacramento user reported eliminating \$82/year in pumping costs while maintaining their koi pond ecosystem.

### Global Applications Meet Local Needs

From Germany's solar-powered urban parks to Australia's drought-resistant gardens, this technology adapts to diverse climates. The built-in MPPT controller optimizes energy harvesting even in suboptimal light conditions - a game-changer for UK gardens receiving only 1,400 annual sunshine hours.

### Frequently Asked Questions

Q: Can it handle large water features?

A: Ideal for ponds up to 1,500 gallons. Multiple units can be synchronized.

Q: How often does the battery need replacement?

A: The lithium battery lasts 3-5 years with proper maintenance.



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Q: Does it work in snow?

A: The panel withstands light snow, but we recommend winter storage in extreme climates.

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