



# Sodium-ion Energy Storage Systems: The IP65-Rated Powerhouse for Industrial Peak Shaving

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### Why Factories Are Betting on Sodium-ion Batteries

Industrial energy costs are like unpredictable rollercoasters. Enter sodium-ion energy storage systems with IP65 protection, the shock-absorbing seatbelts for your facility's power budget. Unlike their lithium cousins that need climate-controlled nurseries, these rugged systems thrive in harsh industrial environments while slashing peak demand charges.

### The IP65 Advantage: More Than Just Weatherproofing

- Dust-proof operation in cement plants (no more "powdered battery" incidents)

- Water-resistant performance near cooling towers

- 20°C to 60°C operational range - perfect for foundries and cold storage

### Peak Shaving That Actually Makes Cents

Take Guangxi's 10MWh sodium-ion storage station - it's been cutting peak demand charges by 40% for local manufacturers. How? By storing cheap off-peak power at R0.28/kWh and discharging during R1.05/kWh peak hours. The math works better than your accountant's best spreadsheet.

### Real-World Performance Metrics

- 92% round-trip efficiency (kiss those energy losses goodbye)

- 3,000+ cycles at 80% capacity (that's 8+ years of daily cycling)

- 22000-cell systems with

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