



BP180-6 Industrial Battery: Technical Specifications and Application Scenarios

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Core Features of BP180-6 VRLA Battery

This 6V/180Ah valve-regulated lead-acid (VRLA) battery packs serious industrial power with maintenance-free operation. Imagine a workhorse that doesn't need watering - that's exactly what the BP180-6 delivers through its recombinant gas technology. The magic happens via absorbent glass mat (AGM) separators that trap electrolytes like a sponge, allowing installation in any orientation except inverted.

Technical Specifications Breakdown

Voltage & Capacity: 6V nominal voltage with 180Ah @20-hour discharge rate

Weight: 28.8kg (about the heft of a medium-sized dog)

Temperature Tolerance: Operates from -20°C to 50°C (-4°F to 122°F) during discharge

Terminal Configuration: B9 terminals compatible with M8 hardware (torque to 10Nm±5%)

Cycle Life: 1,200 cycles at 50% depth of discharge

Industrial Applications That Demand Reliability

Where does this battery shine? Let's look at real-world implementations:

Case Study: Telecom Tower Backup

A major carrier deployed 48 units of BP180-6 batteries in their remote towers. During a 2024 winter storm causing 72-hour grid outage, the system maintained 98% voltage stability - outperforming conventional flooded batteries that showed 12% capacity drop in similar conditions.

Emerging Trends in Energy Storage

With the rise of microgrids, these batteries now pair with solar inverters in hybrid configurations. Their low self-discharge rate (98%

Lead-calcium alloy grids resisting corrosion

Pressure-regulated venting system

Fun fact: Some technicians report these units outlasting the equipment they power - one documented case showed a 2015-installed battery still holding 82% capacity in 2023!

Procurement Considerations

Multiple manufacturers including BB Battery and Conversion Power offer this model. Key differentiators include:

Container material (standard ABS vs flame-retardant options)



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Terminal types (B9 vs I3 configurations)

Regional certifications (IEC 60896-21/22 vs GB/T 19638.2)

Always verify third-party test reports - authentic units should show $\leq 2\text{m}\Omega$ internal resistance when new. Beware of clones using inferior lead alloys that compromise the 10-year design life.

Web: <https://www.sphoryzont.edu.pl>