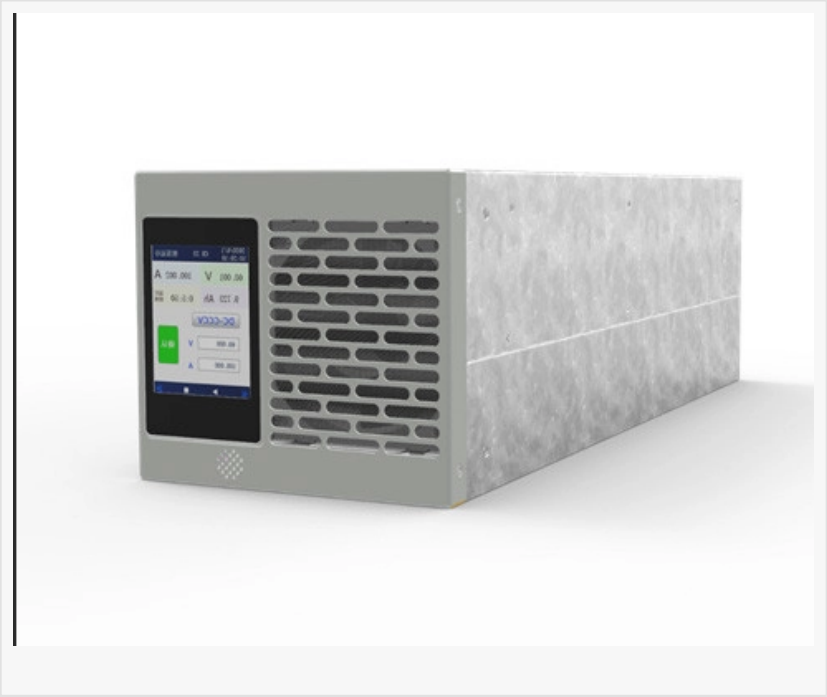
Global Leading AC DC Bidirectional Converter Manufacturer Unveils Next-Gen Power Solutions at SNEC Shanghai



SHENZHEN, GUANGDONG, CHINA, November 18, 2025 / EINPresswire.com/ -- The global transition to sustainable energy has reached an inflection point, with photovoltaic (PV) and energy storage technologies rapidly moving from niche markets to central pillars of the new power landscape. At the forefront of this revolution stands the SNEC PV Power Expo in Shanghai, an event globally recognized not merely as a trade show, but as the authoritative "compass" guiding the direction of the solar and smart energy industry.

The SNEC Compass: Charting the Future of Smart Energy

SNEC, the world's largest and most influential international photovoltaic and smart energy exhibition, draws hundreds of thousands of professional visitors, investors, and innovators from across the globe each year. Its monumental scale—spanning hundreds of thousands of square meters and hosting thousands of exhibitors—is a testament to the colossal growth of the PV sector, particularly in Asia. The event serves as a crucial platform that covers the entire industry supply chain, from raw material production and equipment manufacturing to end-user systems and smart grid integration.

The central theme emerging from recent SNEC expos is unequivocally the Integration of PV and Storage: Smart Leading the Future. This paradigm shift is being driven by multiple global trends: the urgent need for decarbonization, the pursuit of energy security and resilience, and the explosive new demand from electrified transport and data centers. As solar and wind power reach unprecedented levels of penetration, the need for intelligent, responsive energy storage solutions—especially Battery Energy Storage Systems (BESS)—has become critical to ensure grid

stability and reliability.

On the technology front, SNEC showcases the fiercely competitive race for efficiency. The industry is rapidly migrating from older P-type solar cells to the high-efficiency N-type technologies, with TOPCon, HJT, Back Contact (BC), and even Perovskites dominating discussions. These advancements are instrumental in lowering the Levelized Cost of Electricity (LCOE), making solar energy economically unbeatable in more regions worldwide.

Crucially, the expo highlights the blurring lines between energy generation, storage, and consumption. The emerging industrial ecological chains, such as "solar, energy storage, charging, calculating, inspection, and cloud," signify a move towards comprehensive, digitally-managed energy ecosystems. This future demands not just efficient components, but intelligent power electronics capable of seamless energy flow—a capability best embodied by AC/DC bidirectional converter technology. This innovation is essential for enabling two-way power flow, a prerequisite for smart grids, vehicle-to-grid (V2G) systems, and highly responsive micro-grids.

It is against this backdrop of rapid technological convergence and accelerating market maturity that Shenzhen Acadie New Energy Co., Ltd (ANE) presented its next-generation power solutions, positioning itself as a vital link in the integrated smart energy chain.

Shenzhen Acadie: The Nexus of Charging, Storage, and Testing

Shenzhen Acadie New Energy Co., Ltd (ANE), an international trader and manufacturer specializing in the new energy field since its founding in 2017, embodies the innovative spirit of its home city, Shenzhen. The company has skillfully established a powerful, dual-pillar business model that perfectly capitalizes on the integrated "PV, Storage, Charging" trend dominating the industry.

Core Advantage: An Integrated, High-Tech Ecosystem

ANE’s strategic advantage lies in its comprehensive vertical integration and its strong R&D partnerships, which allow it to address multiple points within the new energy value chain:

Electric Vehicle (EV) Charging Solutions: ANE’s charging pile business is closely tied to its capital-affiliated enterprise, Shenzhen EN Plus Tech Co., Ltd (EN+). EN+ is a formidable player in the EV charging market, focusing on total solutions that include both charging hardware and software management systems. With a strong R&D team (75% of staff in R&D) boasting over 60 patents, EN+ is a technological powerhouse. It is this segment that requires the highest standard of power electronics, including the advanced AC/DC bidirectional converters. These components are critical for smart charging, grid balancing, and future V2G capabilities, allowing an EV to not only draw power but also feed excess energy back to the grid when needed—a key differentiator in the smart energy market. This expertise in sophisticated, two-way power conversion is what solidifies ANE's claim as a "Global Leading AC DC bidirectional converter Manufacturer."

Energy Storage and Battery Testing: The second pillar is the development and sale of new energy storage products and battery testing equipment. This segment is supported by a key R&D center in Xi'an, China's "hard technology capital." Here, the focus shifts to the grid-side and commercial energy solutions. Xi'an SINY ENERGY POWER Co., Ltd. specializes in Power Conversion System (PCS) product development, the heart of any BESS unit. Furthermore, Xi'an BTLA focuses on comprehensive, automated testing solutions for new energy vehicles and energy storage micro-grids. This focus on testing and quality assurance is a significant competitive edge, positioning ANE not just as a seller, but as a quality partner for battery producers and EV service providers.

Application Scenarios and Global Customer Success

ANE's diversified product portfolio allows it to serve a vast array of application scenarios, illustrating its integrated approach:

Smart Micro-Grids: By integrating PCS units from SINY ENERGY with its charging infrastructure, ANE provides robust micro-grid solutions for industrial parks, campuses, and remote areas, ensuring reliable and resilient power supply.

Public and Commercial EV Charging: Leveraging the EN+ network, which owns and operates over 130,000 charging stations globally, ANE's products facilitate expansive public and private EV charging networks, supporting the rapid electrification of transportation.

Battery Lifecycle Management: Through Xi'an BTLA, ANE's intelligent detection platform is employed in critical areas like new energy vehicle after-service, battery production quality control, and the essential process of battery recycling and second-life utilization, ensuring safety and maximizing economic value.

The success of this integrated model is validated by ANE's impressive global market penetration. By 2022, the company was exporting its solutions to over ten countries, including discerning markets with stringent quality and regulatory standards such as Norway, Sweden, France, the UK, Germany, and Israel. This export footprint demonstrates ANE's ability to deliver products that meet diverse international certifications and high performance expectations, making it a truly global solution provider.

Pioneering the Integrated Future

The convergence of solar, storage, and e-mobility, as highlighted at SNEC, requires suppliers who can deliver interconnected, smart, and highly efficient power solutions. Shenzhen Acadie New Energy Co., Ltd, through its strategic partnerships and dedication to core power conversion and testing technology, is well-equipped to meet this demand. By offering the critical bidirectional power solutions necessary for the next phase of the energy transition, ANE is actively helping customers worldwide achieve greater energy independence, operational efficiency, and a truly

sustainable future.

To learn more about their comprehensive power solutions and global presence, visit the company’s official website: https://www.evcharging-station.com/.

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