

## **MARSTEK Officially Launches VENUS E 3.0: The Next-Generation Plug-and-Play AC Battery Storage System for Modern Homes**

August 25, 2025 — MARSTEK, a leading innovator in energy storage, proudly announces the official global launch of VENUS E 3.0, the latest generation of its popular balcony and residential energy storage solution. Designed with simplicity, flexibility, and performance at its core, MARSTEK VENUS E 3.0 is now available worldwide, offering homeowners smarter and more accessible energy independence.

### **Evolved Design and Connectivity**

Compared to its previous generation, VENUS E 3.0 introduces a sleeker, more compact form factor with an all-in-one metal enclosure that enhances both durability and visual appeal. The housing has been reengineered to reduce installation space, while maintaining IP65-rated protection for year-round outdoor use. Additionally, the new model features an added LAN port, enabling stable wired communication in complex networking environments.

### **Plug-and-Play AC Battery with Backup Capability**

VENUS E 3.0 is a plug-in AC battery energy storage system featuring 2.5kW input, 800W/2.5kW output, and 5.12kWh of LFP storage. With integrated backup functionality and seamless 15ms switchover, it ensures continuous power to essential loads during grid outages — ideal for apartments, balconies, summer homes, and RVs.

### **Smarter Control with AI Optimization**

The system features an AI-based optimization mode that analyzes home energy profiles, real-time pricing, and load patterns to maximize cost savings. For enterprise users, manual TOU scheduling is available for configurable charging/discharging strategies, helping them profit from variable electricity tariffs.

### **Modular, Scalable, and Compatible**

VENUS E 3.0 supports parallel operation — up to 3 units for single-phase and 9 units for three-phase setups, scaling output to 22.5kW and capacity up to 46.08kWh. It is also fully compatible with existing PV systems, enabling easy retrofits or upgrades without inverter changes.

### **Built for Efficiency and Durability**

With IP65-rated aluminum die-cast housing, a sleek full-mirror LED panel, and a wide operating temperature range of  $-20^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$ , VENUS E 3.0 delivers robust outdoor reliability. The system boasts a  $>93.5\%$  battery-AC efficiency and DoD  $>90\%$ , offering 6000+ cycles and long-term energy resilience.

VENUS E 3.0 reaffirms MARSTEK's commitment to delivering smarter, safer, and more flexible energy storage for every home — whether on a balcony, in a garage, or beyond.

**About MARSTEK**

MARSTEK is a leading brand in energy storage with vertically integrated capabilities spanning R&D, manufacturing, and marketing, providing comprehensive energy storage solutions for global clients. Established in 2009, the company offers a full portfolio covering residential ESS, balcony storage systems, portable power stations, power banks, and rechargeable AA & AAA Li-ion Batteries. With operations across China, Germany, the U.S., Japan, and Africa, MARSTEK is committed to making clean energy easier to install, easier to use, and easier to trust.