

Grid Simulator

Ensuring Stable and Future-Proof Energy Grids

The shift to renewable energy demands robust grid integration to handle increasing loads and ensure stability. As BESS, wind and solar farms expand, integrating these systems with existing grids requires advanced solutions to manage voltage fluctuations, frequency stability, and reactive power demands effectively.

kreotec's Multifunctional Grid Simulator (MGS) provides innovative testing solutions for manufacturers, utilities, and test institutes.

With scalable power from 2 to 90 MVA and a modular design, it accurately simulates real grid conditions for 50 and 60Hz and supports testing the latest Grid Codes, such as e.g. VDE-FNN for BESS from January 1, 2026.

Ideal for mobile and stationary test benches, shore power, and many more!

At a glance

- **From Voltage and Frequency Deviation to LVRT/HVRT, Weak-Grid Scenarios, Phase-Angle Jumps, and Black-Start Capabilities.**
- **4-Quadrant Bidirectional Converter: Flexible input/output voltage variations and grid-forming mode for island operation.**
- **Efficiency & Quality: $\geq 97.5\%$ efficiency, low THDi ($\leq 0.2\%$), and stackable for parallel test benches.**

krecotec – Expertise That Drives Renewable Power Forward

Founded in 2022, krecotec gives customers direct access to over 25 years of hands-on experience in converter technology. Our team of engineers has been active in the wind industry since 1995, bringing deep knowledge in engineering, power electronics, grid integration and service support.

We deliver more than just products—we provide tailored solutions, engineering services, remote support, technical training, and spare parts to keep your systems running reliably and efficiently.

krecotec – Your partner for expert-driven power electrical solutions.

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