

CNHybrid

energy and shelter - fast and easy

CNHybrid combines an intelligent energy generation and storage system with innovative, 20-foot foldable containers. CNH owes its versatility to integrated battery storage. Together with mobile photovoltaic systems and backup generators, this is the ideal unit for maximum efficiency and security of power - in any situation.



The core of the energy generation and storage system is intelligently controlled. This ensures the ideal interaction between electronic components and therefore maximum efficiency in each application.

fully integrated
power generation
and storage
system at the
bottom of
CNHybrid



Battery storage is based on the safest and most durable LiFePO4 technology today and can be charged via mains, photovoltaic or even a generator. In the event of a power failure, the system control immediately switches to battery operation, thus guaranteeing an uninterruptible power supply, especially for critical infrastructure. The standard solution for generating renewable energy is a portable photovoltaic system, which can be deployed for a length of approx. 6 meters in just a few steps and provides 2 kWp of green energy for the user. For off-grid applications, a modern fuel generator provides enough power to charge the batteries, ensuring complete self-sufficiency. With the automatic generator on-off function, the storage unit is also always charged at exactly the right time, providing energy available at all times.

CNHybrid

Closed dimension	6060 x 2440 x 540 mm
Implemented dimension	6060 x 2440 x 2750 mm

General data	
Installation space	exterior (optional air conditioning)
weight	approx. 2.000 – 3.200 kg
dimensions	closed: 6060x2440x540
	open: 6060x2440x2750
transport	10 units / truck

Suitable for any application

Integrated power systems can be configured to fit any application thanks to their modular design, intelligent system control and a sophisticated installation system. For example, the battery capacity can be configured depending on the application and the output power can be extended up to 10 kVA by running several inverters in parallel.



Application examples

- + major events
- + military
- + emergency shelter
- + humanitarian aid
- + temporary office spaces
- + vaccination centres/medical units
- + and many more

Highlights

- + fully integrated power generation and storage system
- + foldable, mobile 20-foot container
- + scalable battery capacity (up to 49,7 kWh)
- + transport of up to 10 units on one truck



Energy, always and everywhere.

Thanks to the unique folding mechanism, CNHybrid can be folded to only 540 mm and thus up to ten units can be transported on a truck with a trailer. All electronic components are permanently installed in the base of the container, so that CNH can be completely assembled and ready for use in less than 10 minutes with the help of a forklift.

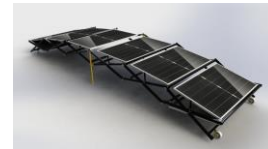
CNHybrid medium	
Output power:	10 kVA
Battery capacity:	31,95 kWh
System voltage:	230 Vac
Photovoltaic system:	4 kWp
Genset power:	3,7 kVA

CNHybrid

- + high power:** 5 / 10 kVa output
- + modular:** Scalable battery storage (up to 49.7 kWh; LiFePO₄)
- + fast:** Plug & Play in under 10 minutes
- + usable:** Container space usable; no waste of space due to floor integration
- + versatile:** Simultaneous energy supply via mains, generator & renewable energies possible

Target sectors:

- Defense & Security
- Construction & Craft
- Event Management
- Emergency Medical Facilities
- Civil Protection
- Industry
- Mining



Energy & accommodation - quick & easy:

- Ideal for changing locations with energy requirements
- Integrated solution: power from the ground, workspace inside
- Use 2 laptops, refrigerator, drill, demolition hammer in continuous operation for more than 16 hours

CNHYBRID – Application scenarios



- Office and break rooms
- Control cabin
- Transmitting stations (mobile)



- Medical applications
- Vaccination centres
- Field hospitals (mobile)

