

neoMega

SCALEABLE LITHIUM-ION ENERGY STORAGE SOLUTION
FOR LARGE PLANTS AND HIGHEST DEMANDS.



- Ideal for large photovoltaics, wind energy & hydropower as well as UPS Systems
- More safety & performance with simultaneous cost optimization
- Stationary & extendable solution
- Highly efficient water cooling
- 3 to 5 times longer service life than conventional batteries
- High cycle life
- Up to 98 % efficiency

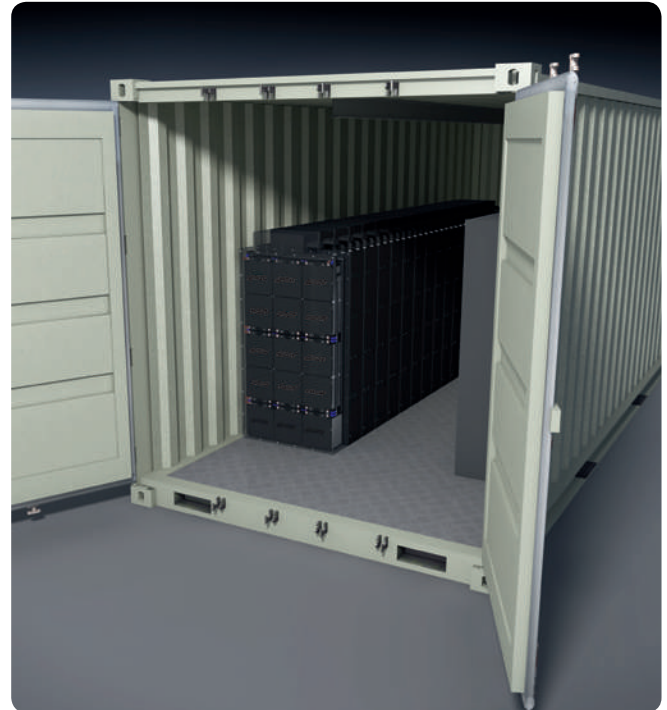
Hessian State Award
for Intelligent Energy 2013
Category Energy Storage



neoMega

HIGH-PERFORMANCE STORAGE SOLUTION FOR RENEWABLE ENERGIES.

- Environmentally friendly lithium-ion battery technology
- Scalable system design with Li-ION batteries, power electronics and IT for the MWh range
- Electrical output from 180 kW up to 2 MW
- Connections and feed-in possibility for 400 V/AC electrical grids
- Intelligent power management for public power grids, energy consumers as well as photovoltaics, wind energy & hydropower plants
- Remote access with user-friendly interface
- Up to 98 % efficiency
- Easy to maintain
- Intrinsically safe (two-pole switch-off in case of fault)
- Highly efficient water cooling
- Integrated battery management
 - Voltage- and temperature monitoring
 - Charge balance between the cells
 - State of charge determination
 - Determination of the ageing status
 - CAN communication with the charger
 - No memory effect = unrestricted partial cycling
- Developed according to DIN EN 50272, DIN EN 62620, DIN EN 61427, DIN EN 61508, IEC 62620
- Tested according to UN 38.3



TECHNICAL DATA (EXAMPLE SYSTEM WITH 1 MWH STORAGE CAPACITY)

Interconnection of cells within modul	4s3p	
Interconnection of modules within tray	15s1p	
Interconnection of trays within system	3s10p	
Capacity	1,590 Ah	
Voltage max.	756 V	
Voltage nom.	666 V	
Voltage min.	540 V	
Amount of energy BOL	1,059 kWh	
System weight	ca. 9,100 kg	
Power specification		
Charging	2C duration	2.1 MW 3,180 A system level 318 A per tray
	5C peak 10 s	5.3 MW 7,950 A system level 795 A per tray
Discharging	2C duration	2.1 MW 3,180 A system level 318 A per tray
	5C peak 10 s	5.3 MW 7,950 A system level 795 A per tray

* According to our terms of guarantee, ** @ 80 % DoD; up to 80 % residual capacity

AKASOL

HIGH PERFORMANCE BATTERY SYSTEMS.
MADE IN GERMANY WITH OVER 20 YEARS EXPERIENCE.

The German company AKASOL is one of the world's leading developers and producers of mobile and stationary high-performance battery systems. Fields of application of the award-winning storage solutions are the commercial

vehicle and automobile industry; the wind energy, hydropower and solar industries; and the shipbuilding industry.

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