

## neoRack

THE MODULAR LITHIUM-ION ENERGY STORAGE UNITS FOR PLANT OPERATORS.

MADE IN GERMANY  
10-YEARS GUARANTEE\*



- Ideal for private homes & small plants
- Plug & Play installation
- 10 years guarantee\*
- Life expectancy 20 years
- High cycle life
- Extremely compact design
- Scalable system
- Award winning technology

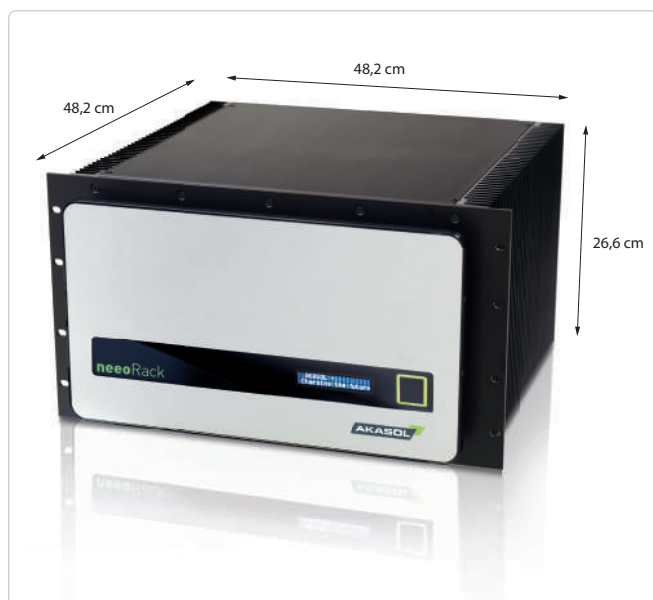
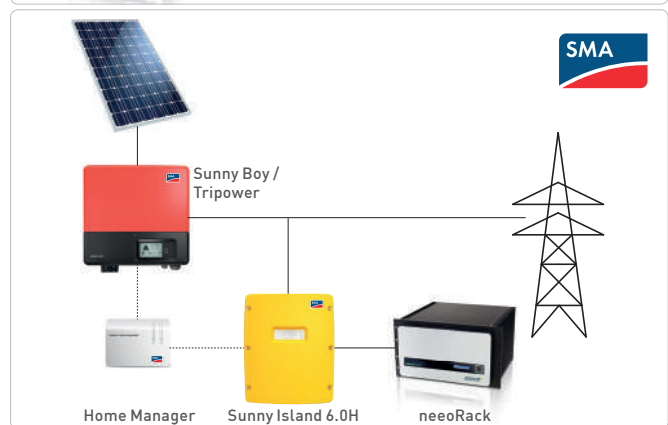
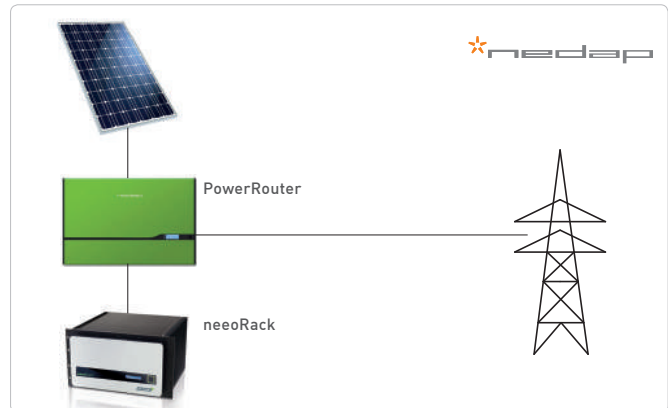
Hessian State Award  
for Intelligent Energy 2012  
Category Energy Storage



## neoRack

### OPTIMALLY EQUIPPED FOR FUTURE MARKET DEVELOPMENTS AND ENERGY LAWS.

- Environmentally friendly lithium-ion battery technology
- Designed to be used in neoSystem
- Scalable system design
- Up to 20 years service life
- Stand-alone capacity (no central unit required)
- Intrinsically safe (two-pole switch-off in case of fault)
- Integrated fanless cooling (passive)
- Integrated battery management
  - Voltage- and temperature monitoring
  - Charge balance between the cells
  - State of charge determination
  - Determination of the age 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
- Compatible with inverters of various manufacturers, e.g. SMA and Nedap



\* According to our terms of guarantee, \*\* @ 80 % DoD

#### TECHNICAL DATA

Voltage	48 V
Capacity	106 Ah
Energy	5,5 kWh
Cycles**	5000
Performance nom.	5 kW
Performance max. (10 s)	15 kW
Protection class	IP 50 (extendable to IP 63)
Possible operation range	-10° to +50 °C
Max. humidity	85% non condensing
Power connection	2 screw terminals 35mm <sup>2</sup>
Data connection	RJ45 or D-Sub
Efficiency battery up to	98%
Efficiency system up to	Nedap 92% / SMA 90%
Voltage range @ 48 V <sub>nom</sub>	37,8 V to 58,8 V
Dimensions (W D H)	482 x 482 x 266 mm
Weight	49 kg
Operation mode	1- or 3-phase operation

#### 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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