



Industrial Batteries / Network Power

Sonnenschein@home Lithium 9.0



»Become *independent*,
economical and *ecofriendly*«

Sonnenschein@home Lithium

Renewable Energy provides independence, cost saving and sustainability

Sunny outlook for self-generated power






More than ever before the world is focused on renewable energy and is developing more responsible technologies. With Sonnenschein@home Lithium everybody can contribute to a better environment and save money. GNB® Industrial Power offers an excellent energy storage solution with its Sonnenschein@home Lithium battery and provides ideal performance in a variety of applications, which stores the surplus of the collected solar energy for later demand. Energy can be either consumed immediately or stored in the battery for later use. Be on the sunny side with Sonnenschein@home Lithium!

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The Sonnenschein Lithium modules are ideal when Advanced Energy Storage Systems are required. Excellent cycle life with zero maintenance offers end-users significant cost of ownership savings. The state-of-the-art safety hardware offers our customers complete peace of mind.

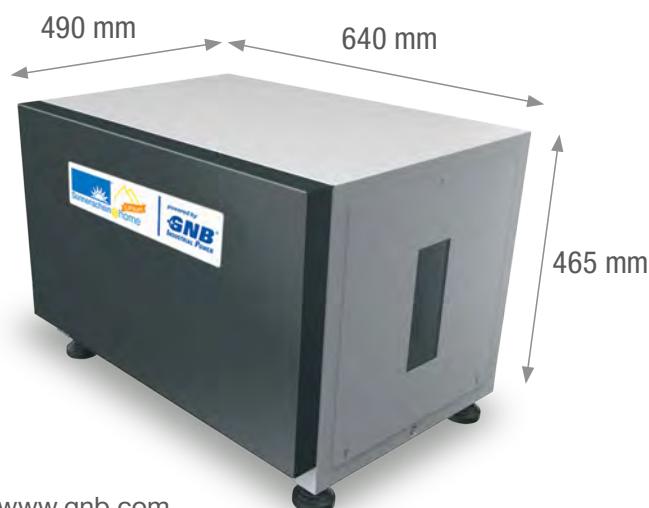
Every module contains its own Battery Management System. Up to 12 modules of the same type can be connected in parallel. In a parallel configuration one module assumes the role of Master BMS. The Master BMS communicates with the Energy Management System of approved inverters.

Main Product Features

-  Ideal for residential, commercial & industrial energy storage
-  Plug & Play
-  Maintenance free
-  No gas emission
-  Perfect functionality with approved inverters
 - > SMA Sunny Island Family
 - > Selectronic (SPMC482, SPMC481 and SPMC480)

CAN bus communication between battery and inverter is mandatory.

-  Fast charging possible - shorter charging time
-  Compact design
-  High cycle life - 5,000 cycles at 80% DOD (Depth of Discharge)



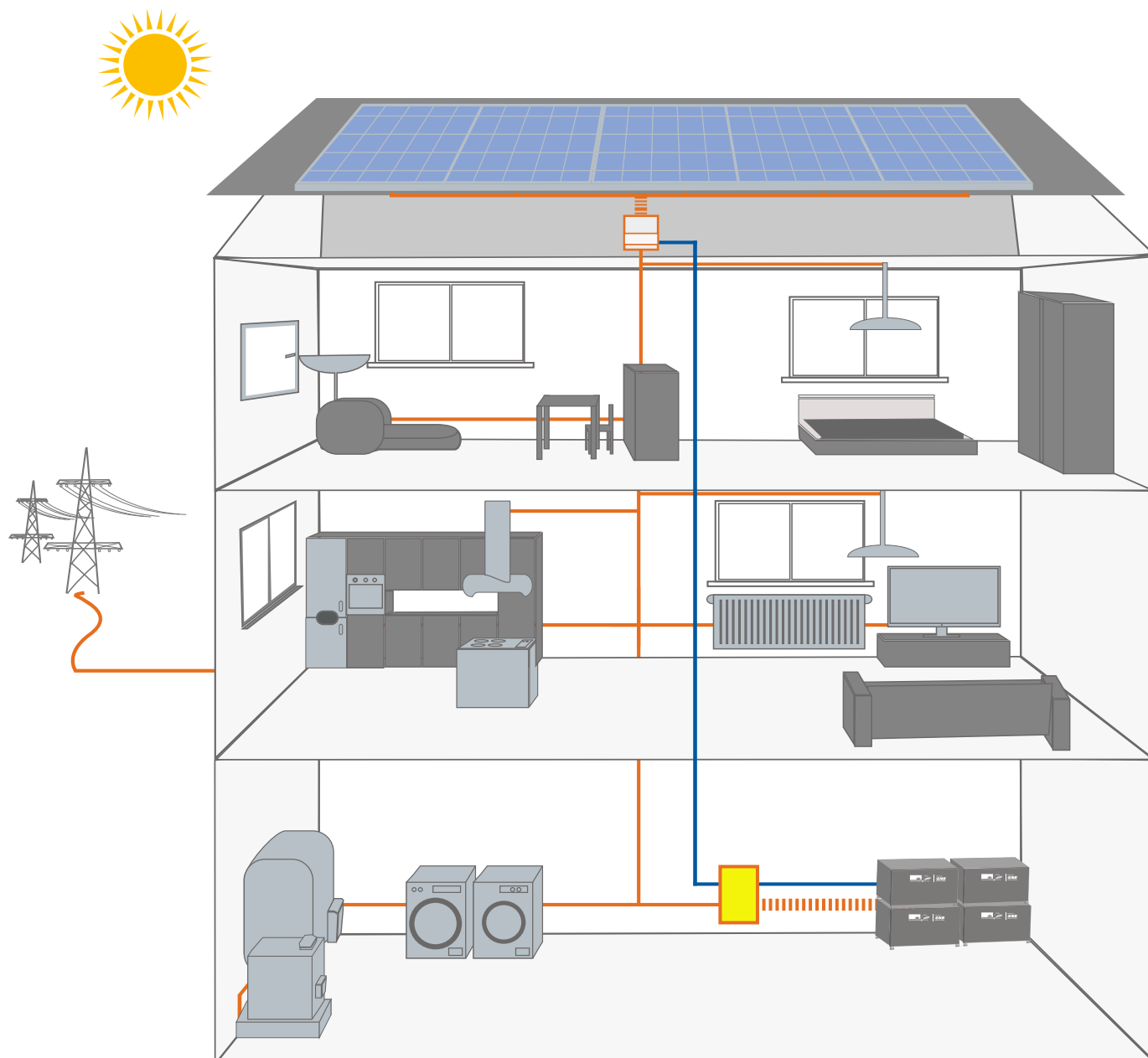
www.gnb.com

General Properties	Sonnenschein@home Lithium 9.0
Nominal voltage	54.0 V
Capacity	156.6 Ah
Nominal energy	8.5 kWh
Available energy	6.8 kWh
Charge end voltage	61.5 V
Discharge end voltage	45.0 V
Max. charge current	90 A
Max. discharge current	300 A (3 sec.)
Number of cycles	5000
Discharge depth (DOD)	80%
Protection class	IP21
Operating temperature range	0°C bis +45°C
Max. humidity	85% non-condensing
Connection	two 50 mm² DC cables with cable lug M8
Dimensions W x H x D	approx. 640 mm x 465 mm x 490 mm
Weight	97 kg

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Energy is available as required: in the evening, at night, or on a cloudy day

Application





Exide Technologies, with operations in more than 80 countries, is one of the world's largest producers and recyclers of lead-acid batteries. Exide Technologies provides a comprehensive and customized range of stored electrical energy solutions. Based on over 120 years of experience in the development of innovative technologies, Exide Technologies is an esteemed partner of OEMs and serves the spare parts market for industrial and automotive applications.

GNB Industrial Power – A division of Exide Technologies – offers an extensive range of storage products and services, including solutions for telecommunication systems, railway applications, mining, photovoltaic (solar energy), uninterrupted power supply (UPS), electrical power generation and distribution, fork lifts and electric vehicles.

Exide Technologies takes pride in its commitment to a better environment. An integrated approach to manufacturing, distributing and recycling of lead-acid batteries has been developed to ensure a safe and responsible life cycle for all of its products.

GNB® INDUSTRIAL POWER devises enduring energy concepts that convince with efficiency, flexibility and profitability.