Product information

Nilar EC Racks

- Nilar Hydride® battery technology

BENEFITS IN BRIEF

- Safer than "safe"[1]
- Environmentally-friendly
- Fully recyclable
- Long service life
- Wide temperature range
- Maintenance free

Energy compact solution for commercial and industrial support

With electricity prices fluctuating throughout the course of the day, utilizing energy stored during low-tariff fee periods can deliver considerable savings. By combining the Nilar EC Rack solution with an understanding of the tariff fee structures of energy providers, industrial applications can run at lower costs. This way customers are able to apply demand charge management and enjoy strong financial viability. For further savings, the Nilar EC Rack solution can be connected to renewable energy sources. The excess renewable energy can then be discharged during peak times.

1) Nilar provides battery systems that are safer than many so called "safe" solutions available on the market. The Nilar battery system contains water based, non-flammable electrolyte. It does not generate short circuit failure even under low temperature charging. The electrodes cannot ignite spontaneously and will not cause heat propagation between modules. That's why we argue that we are safer than "safe".

Nilar AB
Headquarters and Sales
Stockholmsvägen 116 B
SE-187 30 Täby
Sweden
Phone: +46 (0)8 768 00 00
Email: sales.europe@nilar.com

Nilar AB
R&D and Production
Bönavägen 55, Box 8020
SE-800 08 Gävle
Sweden
Phone: +46 (0)26 960 90
Email: production@nilar.com

Nilar Inc
R&D and Sales
10800 E. Bethany Drive, Suite 525
Aurora, CO 80014
USA
Phone: +1 720 446 0169
Email: sales.america@nilar.com

The Nilar energy storage system solutions can be configured according to different setups, creating flexibility and a user-friendly experience for the customers. The energy storage system can be scaled up in order to meet your energy demand. Each energy storage system can be extended to include four units, where one unit acts as the Master and up to three units as Servants.

To enable the Nilar energy storage system to operate according to the specifications, an inverter is required to handle charging and discharging of the energy storage and for the conversion between AC/DC. An Energy Management System (EMS) is also required in order to control when and where the power should be delivered. Depending on the chosen energy storage set-up, the EMS manages various system functions such as power management and inverter management. The EMS can either communicate with the Nilar BMS or directly with the inverter to initiate charging or discharging of the battery bank.

Battery size is determined by a number of application-specific features such as load profile (kW), desired system voltage (V) and required runtime (h). Another important aspect of your energy storage solution is the inverter. Different applications require different size of the inverter. Nilar can assist you upon request to find the correct inverter to match your energy storage system.

Product range specifications

RACK	Art. nr.	Product description	No. of battery packs	Pack voltage (V)	System voltage (V)	Rated capacity (Ah)	Energy (kWh)	Weight (kg)	Depth (mm)	Height (mm)	Width (mm)
ECI-600V-48kWh-M	20-0024	Rack 48 kWh Master	40	120	600	80	48	1402	615	1996	1509
ECI-600V-48kWh-S	20-0026	Rack 48 kWh Servant	40	120	600	80	48	1402	615	1996	1509
ECI-576V-57,6kWh-M	20-0025	Rack 57,6 kWh Master	40	144	576	100	57,6	1610	615	1996	1509
ECI-576V-57,6kWh-S	20-0027	Rack 57,6 kWh Servant	40	144	576	100	57,6	1610	615	1996	1509