

Product information

Nilar EC Racks

- Advanced NiMH battery technology



BENEFITS IN BRIEF

- Store solar power
- Support critical loads
- Safer than "safe"¹
- Long service life
- Maintenance free
- Environmentally friendly
- Fully recyclable

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 sustainable energy sources. Energy will only be transferred from the grid at off-peak times if the intermittent sources have not provided enough energy for full charge.

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".

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The Nilar energy storage system solutions can be configured according to different setups, creating flexibility and a user-friendly experience for the customers. To enable the Nilar Energy Storage System to operate according to the following specifications, an inverter is required to handle charging and discharging of the energy storage and for the conversion between AC/DC. Nilar can assist you upon request to find the correct inverter to match your Energy Storage System.

Battery size is determined by a number of application-specific features such as load profile (kW) and required runtime (h). Inverter option is also important. Depending on application, different sizes of Inverters must be used. Nilar will work with you to determine the appropriate-sized Inverter for your application.

An Energy Management System (EMS) is also required in order to control when and where the power should be delivered. The EMS can either communicate with the Nilar BMS or directly with the Inverter to initiate charging or discharging of the battery bank.



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 | 20-0024 | Rack 48 kWh | 40 | 120 | 600 | 80 | 48 | 1402 | 640 | 2010 | 1520 |
| ECI-576V-57,6kWh | 20-0025 | Rack 57,6 kWh | 40 | 144 | 576 | 80 | 57,6 | 1610 | 640 | 2010 | 1520 |