

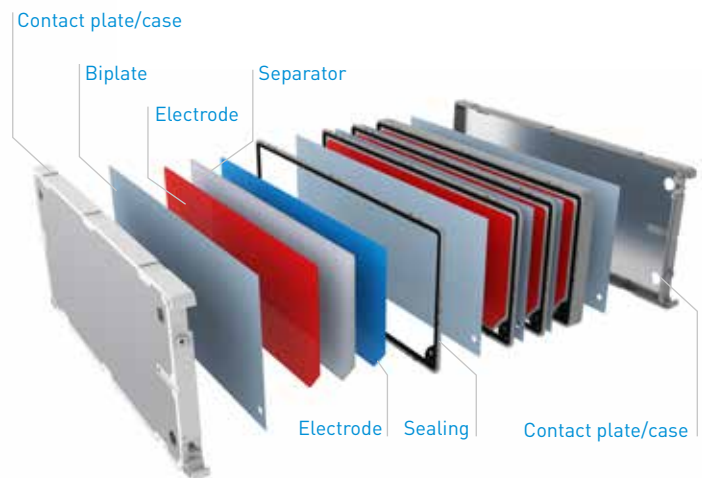
Product information

Nilar EC Series

- Nilar Hydride[®] battery technology

BENEFITS IN BRIEF

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



Patented Nilar design

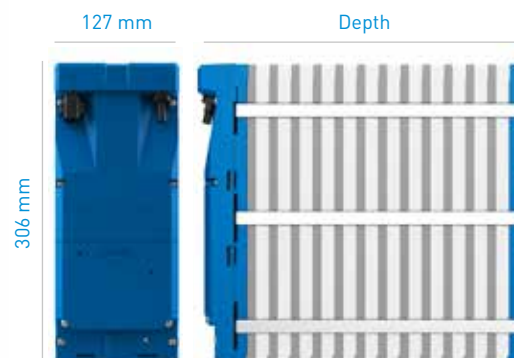
The Nilar EC (Energy Compact) is the only commercially available bi-polar Hydride battery. With the patented Nilar bi-polar design, the Nilar EC brings you a safer, greener, more reliable and cost-efficient energy storage solution. Thanks to the ruggedness of the Nilar Hydride[®] battery design, Nilar EC delivers a stable performance curve throughout the life of the battery. With an operating temperature range covering from -20°C to +50°C, you can rely on the battery to perform in various conditions. The Circular Economy philosophy has been a central part of the R&D process for Nilar EC. Additionally, the newly patented module cooling solution ensures stable temperature throughout the whole pack.

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 current/failure/conditions 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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| Configuration | Depth, mm |
|---------------|-----------|
| EC-96V-10Ah | 248 |
| EC-108V-10Ah | 273 |
| EC-120V-10Ah | 293 |
| EC-144V-10Ah | 337 |

Battery pack specifications

| Electrical Characteristics | 96V | 108V | 120V | 144V | Unit |
|----------------------------------|-----------------|-----------------|-----------------|-----------------|--------|
| Capacity | 10 | 10 | 10 | 10 | Ah |
| Energy | 0,96 | 1,08 | 1,2 | 1,44 | kWh |
| Cycles | 2000 | 2000 | 2000 | 2000 | cycles |
| Nominal Voltage | 96 | 108 | 120 | 144 | VDC |
| Max continuous charge /discharge | 3 C | 3 C | 3 C | 3 C | C-rate |
| Max charge/discharge | 7 C | 7 C | 7 C | 7 C | C-rate |
| Gravimetric energy density | 40,7 | 41,2 | 41,7 | 42,4 | Wh/kg |
| Volumetric energy density | 122,1 | 124,4 | 126,3 | 129,3 | Wh/l |
| Mechanical Characteristics | | | | | |
| Dimensions (DxHxW) | 248 x 306 x 127 | 273 x 306 x 127 | 293 x 306 x 127 | 337 x 306 x 127 | mm |
| Weight | 24 | 26 | 29 | 34 | kg |
| Protection class | | | | | |
| Battery pack | IP54 | IP54 | IP54 | IP54 | IP |
| Integrated Monitoring Unit | IP21 | IP21 | IP21 | IP21 | IP |
| Operating Conditions | | | | | |
| Ambient temperature range | -20 to +50 | -20 to +50 | -20 to +50 | -20 to +50 | °C |
| Service life | 20+ | 20+ | 20+ | 20+ | years |