YOUR INTELLIGENT ENERGY STORAGE
Hybrid - A range of smart, all-in-one energy storage and distribution systems for leisure markets, homes and small to medium size businesses. Thanks to the innovative hybrid inverters and patented Lead Crystal® battery technology, you are now able to determine when and how much of your self-generated solar or wind power you want to store and when to use it. You can choose from grid-tied with back-up, completely off grid, load shaving, grid stabilisation or blackout prevention on the UPS setting (uninterrupted power supply) or a combination of functions depending on how you require the power.
Get more out of your solar energy systems

How incredible would it be to use your own generated solar or wind power whenever you want. Or sell what you don’t use. With only the touch of a button.

Due to the special Lead Crystal® batteries, you are now able to store solar, wind or grid energy fast and safely. You can use the storage energy day or night, to run all your electric devices like TV, coffee machine, dish washer, laptop and lighting in your house. You will become less grid dependent, saving significantly on energy costs, and contribute to a greener planet.
During full sunny days, Hybrid will automatically power the house and simultaneously charge the batteries. If the solar panels generate more power than the load can use and/or that can be charged to the batteries, the excess power will be sold to the power grid.

When full sun is not or partly available, Hybrid distributes its energy to power the load first and send all additional power to the charge batteries. When the batteries are fully charged, and the load is sufficiently powered, any additional power will be sold to the grid. If the solar panels can't generate sufficient energy to power the load or charge the batteries, the grid will be engaged to power the load during off-peak times and all the power from the panels will be used to charge the batteries for use during on-peak times.

At night, when no solar power is being generated, the battery bank will power the load during peak times. If the house uses more power than the battery bank can supply to power the load for the entire night, the grid will be engaged for load support. If Hybrid determines that it would not be able to power the load from the batteries the next morning, the grid will be used at late night (off-peak time) to charge the battery bank to ensure the system can support the load during peak morning use.
Applications

Hybrid is a multi-functional energy system which allows you to become as grid independent as you want. If your home is already fitted with solar panels (PV) or a (urban) windturbine, just connect the Hybrid to your system and you will be able to store the surplus energy into the custom designed batteries.

If you are considering to start using green power resources to generate your own energy, or you just want to use Hybrid as an electricity back-up system (UPS - Uninterruptible Power Supply), you will find that Hybrid can do it both.

Available Hybrid range

Hybrid is available in four different categories (storage ranging from 2,4 kWh to 260 kWh).

Hybrid Leisure
Single phase system for recreational vehicles, small remote (holiday) houses, boats, etc.
Dimensions: 85 x 60 x 35cm

Hybrid Home
Single phase system for residential use.
Dimensions: 140 x 60 x 35cm

Hybrid Tower
Single or three phase system for large residents and small businesses.
Dimensions: 155 x 65 x 65 cm

Hybrid Wall
Three phase system with modular energy storage capability, up to 260 kWh possible.
About us

Powering change
Lead by innovation and based on more than 20 years of research in the field of energy generation, integration, and storage. Hybrid is part of Betta Batteries Group, the innovators behind the Lead Crystal® battery technology that has been developed to supply a working solution to the ever growing renewable and power storage industry. Every Hybrid system is designed with the Lead Crystal® battery at its core. In combination with the highly advanced hybrid inverter, we are confident that our Hybrid system will outperform and be safer than any system available on the market today.

Designed in the Netherlands
Hybrid systems are being produced in our manufacturing facilities in Australia, South Africa and the Netherlands, reducing lead times, carbon footprints and costs. We use our extensive distribution network to deliver and install systems fast and in accordance with local standards.

Securing your safety
Hybrid systems are manufactured to comply with international standards such as TÜV, CE, SAA, UL, MCS, ROHS, SABS and inverter certificates for VDE, SAA, EN50438, G83, G69, C10/11. We know that our system is completely safe to use for in-house purposes. We are committed to responsible engineering of the safest, greenest possible future for you and your family. Our commitment is to supply you the most advanced, reliable, safe and cost effective range of energy integration products made from recycled and nearly 100% recyclable materials in our power storage solutions. Systems are engineered to meet the world’s growing energy demands.

In full control
Characteristics of the Hybrid system:
+ All-in-one system (no separate inverter, chargers or other electrical components required)
+ Battery back up available from 2.4 kWh to 260 kWh
+ Inverter power from 1 kW to 30 kW single phase and 10 kW to 60 kW three phase (systems can be chained together for even more power)
+ +/- 50kg (excl. batteries)
+ Highly flexible
+ Modular design
+ Wifi connection available
+ Special mobile app (optional extra)
+ Designed in the Netherlands, made locally
+ Plug & Play
+ Manufacturers backed warranty