EXPERIENCE THE ENERGY OF INDEPENDENCE

VARTA energy storage systems – more than 130 years of battery expertise made in Germany.
WHERE GOOD ENERGY IS AT HOME

You can waste many words on the topic of energy revolution. Or you can start one yourself by using sustainably-produced energy in your own home.

With our VARTA energy storage systems, you can now use energy you’ve produced yourself, even in the evenings, at night or on rainy days – by moving from consumer to energy provider, you can increase your self-consumption to 80% or more. That means you’ll be truly independent – from the weather, operators and energy costs.

Now you can lean back and relax because at VARTA we know what we’re doing – we represent more than 130 years’ worth of battery expertise made in Germany. As a result, we’ve received multiple awards and are also the first choice with you, our 10,000+ satisfied customers.

What are you waiting for? Become your own energy supplier!
YOUR OWN POWER — ANY TIME AND EVERYWHERE

Even the best solar and wind power systems only produce energy when the weather allows it. The rest of the time you have to fall back on mains power. The basic idea of an energy storage system is that energy is produced at a different time to when it is actually used.

With a VARTA energy storage system, you can temporarily store the energy you’ve produced yourself and then use it when you actually need it. So you can use green energy 24 hours a day!

SOLAR ENERGY 24 HOURS A DAY
By storing solar energy during the day, you can cover your energy consumption in the morning and evening with the energy you have stored yourself.
OUR BEST AT A GLANCE

The demands on energy storage systems may vary depending on the type of building and application, but the desire for reliability and safety applies for each of our technical solutions. You can easily figure out which storage system is right for you using our website: www.varta-storage.com/en/service/calculation

VARTA PULSE
Our smallest energy storage system on the market: The starter model for anyone seeking independence!

Small and efficient – our winner in terms of efficiency among AC storage systems, this model has the best values on the market! As it can be hung on the wall to save space, it is ideal for any home. Available with a storage capacity of either 3.3 kWh or 6.5 kWh.

VARTA PULSE NEO
Our smallest energy storage system on the market and a smart entry into independence!

As a smart model, the neo model is perfectly suited for any smart home thanks to its VS-XMS operating system which can be flexibly expanded. It also convinced our customers and won the test in the “Energy” category in the reader’s choice poll.

VARTA PULSE 3 AND 6

- Nominal battery capacity: 3.3 / 6.5 kWh
- Max. AC charge power: 1.6 / 2.5 kW
- Max. AC discharge power: 1.4 / 2.3 kW
- Electrochemistry: NMC
- Dimensions (w x h x d) in mm: 600 x 690 x 186
- Weight: 45 / 65 kg
- Power supply: 230 V AC, 1-phase, 50 Hz
- Control, monitoring: PC, tablet, smartphone
- System: AC all-in-one system, including battery inverter
- Installation: Wall mounting

VARTA PULSE NEO 3 AND 6

- Nominal battery capacity: 3.3 / 6.5 kWh
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¹ Energy Storage System Inspection 2020 HTW Berlin. VARTA pulse 6 in reference case 1
² haustec.de readers’ poll with the VARTA pulse in 2019 and the VARTA pulse neo in 2020
VARTA ELEMENT
The ideal energy storage system for families who like to be well supplied!
Thanks to the practical plug & play technology, our all-in-one system can be installed in any home. Available in three different capacities, it is the ideal energy storage system for anyone who wants to be independent in their own four walls.

VARTA ELEMENT 6, 9 AND 12

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal battery capacity</td>
<td>6.5 / 9.8 / 13.0 kWh</td>
</tr>
<tr>
<td>Max. AC charge power</td>
<td>2.2 / 3.4 / 4.0 kW</td>
</tr>
<tr>
<td>Max. AC discharge power</td>
<td>1.8 / 3.0 / 3.7 kW</td>
</tr>
<tr>
<td>Electrochemistry</td>
<td>NMC</td>
</tr>
<tr>
<td>Dimensions (w x h x d) in mm</td>
<td>600 x 1,176 x 500</td>
</tr>
<tr>
<td>Weight</td>
<td>115 / 145 / 165 kg</td>
</tr>
<tr>
<td>Power supply</td>
<td>400 V AC, 3-phase, 50 Hz</td>
</tr>
<tr>
<td>Control, monitoring</td>
<td>PC, tablet, smartphone</td>
</tr>
<tr>
<td>System</td>
<td>AC all-in-one system, including battery inverter</td>
</tr>
<tr>
<td>Installation</td>
<td>Free-standing</td>
</tr>
</tbody>
</table>

VARTA FLEX STORAGE E
Big but flexible – optimum energy for your business!
The modular design of VARTA flex storage makes it possible to individually adjust the output, capacity and functionality according to different requirements. VARTA flex storage systems are optimised for various applications in the commercial sector – from increasing self-consumption and peak shaving to being able to act as an emergency power supply.

VARTA FLEX STORAGE E

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal battery capacity</td>
<td>from 75 to 750 kWh</td>
</tr>
<tr>
<td>Nominal system performance1</td>
<td>36 / 80 / 120 kW</td>
</tr>
<tr>
<td>Electrochemistry</td>
<td>NMC</td>
</tr>
<tr>
<td>Dimensions (w x h x d) in mm</td>
<td>Configuration-dependent</td>
</tr>
<tr>
<td>Weight</td>
<td>Configuration-dependent</td>
</tr>
<tr>
<td>Power supply</td>
<td>400 V AC, 3-phase, 50 Hz</td>
</tr>
<tr>
<td>Applications</td>
<td>Self-consumption optimisation, peak-shaving, islanding(^2), external setpoint(^2)</td>
</tr>
<tr>
<td>System</td>
<td>AC all-in-one system, including battery inverter</td>
</tr>
<tr>
<td>Installation</td>
<td>Free-standing</td>
</tr>
</tbody>
</table>

\(^1\) Cos φ=1  
\(^2\) Optional
BE INDEPENDENT AND SAVE MONEY

Become independent from increasing energy prices with a VARTA energy storage system. Permanently increase your self-consumption and benefit from consistent energy costs. So you aren’t just saving your own green energy and thus contributing to the energy revolution – you’re also saving money!

The purchase of an energy storage system is supported by a large number of federal, state and community grants. You can save up to 3,200 € by purchasing an energy storage system!\(^1\)

<table>
<thead>
<tr>
<th>YOUR ANNUAL ENERGY BILL</th>
<th>4,200 kWh (annual power consumption) x 31 cent/kWh (current average energy price)(^2)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EUR 1,302 EUR</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>YOUR ANNUAL ENERGY BILL WITH PV SYSTEM AND VARTA ENERGY STORAGE SYSTEM</th>
<th>(80% of expected degree of self-sufficiency)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>840 kWh (drawn from the grid) x 31 cent/kWh (current average energy price)(^2)</td>
</tr>
<tr>
<td></td>
<td>EUR 260</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ANNUAL ENERGY SAVING</th>
<th>EUR 1,042</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>ENERGY SAVING AFTER 10 YEARS</th>
<th>EUR 10,420</th>
</tr>
</thead>
</table>

\(^1\) In accordance with the 10,000 Houses programme of the Federal State of Bavaria. Subject to change
\(^2\) German Association of Energy and Water Industries (BDEW)
In accordance with the 10,000 Houses programme of the Federal State of Bavaria. Subject to change

SECURE A GRANT FOR YOUR STORAGE SYSTEM

FEDERAL STATE GRANTS
Some federal states offer non-repayable grants, the amount of which is either a percentage of the investment or a fixed sum of money. That means you could save up for 3,200 € on your purchase!

KFW CREDITS
KfW offers a variety of loans, which people who are interested in storage systems should know about. This includes the KfW Kredit 153 loan of up to 120,000 € per residential unit and a repayment bonus of up to 25%. With a KfW Effizienzhaus 40 Plus loan, you can save up to 30,000 € in repayments.

GRANTS FROM PUBLIC UTILITY COMPANIES AND ENERGY PROVIDERS
As an insider tip, there are grants issued by energy suppliers and public utility companies. There is a difference, however: you usually have to be a customer in order to be able to apply for a grant.

FIND GRANTS
It’s important to apply for your chosen grant early. For one thing, energy storage systems usually cannot have already been installed when a grant application is submitted. For another, the interest in grants is often so high that the pool of funding is usually used up quickly.

COMMUNITY GRANTS
Local authorities are free to financially support residents in investing in an energy storage system. You should apply directly to your city or local government.

* In accordance with the 10,000 Houses programme of the Federal State of Bavaria. Subject to change
130 YEARS OF BATTERY EXPERTISE MADE IN GERMANY
As a battery manufacturer, VARTA is the only provider of energy storage systems to have more than 130 years of expertise in batteries. So when you choose us you are choosing a brand made in Germany and are always on the safe side – also on the way to a green future.

EXCELLENCE – VOTED NO. 1
Our customers have decided and for the second year in a run have voted us “product of the year” in the category “Energy”¹ in the haustec.de readers’ poll with the VARTA pulse neo. As efficiency winner among the AC energy storage systems the VARTA pulse delivers top ratings on the market in the categories of battery efficiency and standby consumption!²

CONTINUOUS RESEARCH AND DEVELOPMENT
With more than 130 employees in research and development, we’re setting the standard for battery technology through continuous investment – now and for the future. We have, for example, developed our smallest energy storage system on the market thanks to maximum energy density in the smallest space. With our innovative plug & play technology, it’s also quick and easy to install the VARTA energy storage systems.

FUTURE-PROOF AND FLEXIBLE
As all-in-one AC systems, our VARTA energy storage systems have an integrated battery inverter and are perfectly suitable for retrofitting or new installations. The best part is that the storage capacity can be expanded at any time, even after installation.

¹ haustec.de readers’ poll with the VARTA pulse in 2019 and the VARTA pulse neo in 2020
² Energy Storage System Inspection 2020 HTW Berlin. VARTA pulse 6 in reference case 1
10 YEAR WARRANTY
As battery expert made in Germany, we give you a 10-year warranty on the battery modules and optionally 10 years (permanent internet connection) or 5 years (without internet connection) on the storage system – because we know we can rely on our energy storage systems.¹

CONNECTIVITY IN SMART HOME
Thanks to the open operating system, our smart energy storage systems can communicate with nearly any home and energy technology components or systems in your home – for a smart future. In addition, you can also easily keep an overview of your energy consumption and production data in the VARTA online portal or on the VARTA app.

A GOOD CHOICE FOR SAFETY
When it comes to safety, we do not compromise: this starts with continuous testing of the material, continues through production and on to delivery, and continues with integrated safety electronics and independent switch-off devices for risk-free operation. So our system provides failure-free functionality, even in the event of disruptions. That means our energy storage systems are not only safe and reliable, but that they’re also setting new standards for smart designs – from the special cell chemistry through to the energy and battery management system.

SUSTAINABLE DISPOSAL
Of course, VARTA also takes care of collecting and professionally disposing of your old batteries in order to guarantee the recycling of raw materials in accordance with the specifications.

¹ According to terms of manufacturer’s warranties (available at: www.varta-storage.com/service/downloads)
THE BEST SOLUTION FOR EVERY NEED

Whether it’s a detached house, business or farm – our VARTA energy storage systems are always the right solution for you. You can easily figure out which storage system is right for you using our website: www.varta-storage.com/en/service/calculation

<table>
<thead>
<tr>
<th>STORAGE CAPACITY</th>
<th>PV OUTPUT/ POWER CONSUMPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000 kWh</td>
<td>500+ kWP / 550,000 kWh</td>
</tr>
<tr>
<td>75.0 kWh</td>
<td>30 kWP / 30,000 kWh</td>
</tr>
<tr>
<td>39.0 kWh</td>
<td>30 kWP / 30,000 kWh</td>
</tr>
<tr>
<td>18.0 kWh</td>
<td>16 kWP / 12,000 kWh</td>
</tr>
<tr>
<td>13.0 kWh</td>
<td>10 kWP / 9,000 kWh</td>
</tr>
<tr>
<td>9.8 kWh</td>
<td>8 kWP / 6,000 kWh</td>
</tr>
<tr>
<td>6.5 kWh</td>
<td>6 kWP / 4,500 kWh</td>
</tr>
<tr>
<td>3.3 kWh</td>
<td>3 kWP / 2,500 kWh</td>
</tr>
</tbody>
</table>

Industry, business or agriculture
Apartment building, small business or agriculture
Single-family house with PV system, heat pump and e-car
Single-family house with PV system, and heat pump
Single family house with PV system
The more the better. By connecting multiple VARTA energy storage systems and thanks to smart energy management, you can increase your storage capacity and output many times over. The best part is that the storage capacity can be expanded at any time, even after installation.

**THE BEST CONNECTION**

By connecting up to five VARTA energy storage systems with VARTA Link, you can increase the gross capacity of the connected storage systems to up to 56 kWh. With our big storage systems, capacity can even exceed 1 MWh. This makes it easy to adapt to increased requirements.

It gets even better. Using the VARTA pulse neo, it's possible to connect up to six VARTA energy storage systems without any additional hardware. That means you can increase your gross capacity to up to 71.5 kWh.
STAY ON TOP OF THINGS

Keep an top of your energy storage system using our VARTA online portal or the VARTA Storage app. That means you don’t have to be at home to be sure of what’s happening at home – our app makes it possible for you to be able to control your energy storage system from anywhere at any time.

TRANSPARENCY

Around the clock, anywhere in the world – monitor your storage system on the go with your smartphone. Visualised as a graphic, you can see performance data as well as your self-sufficiency rate and your consumption rate. To the day, monthly, annually, or over the entire term. You can even access data regarding the weather at home – always up-to-date with just a few clicks.

Everything at a glance: graphic representation of your performance data, as well as your self-sufficiency and consumption rate.
The benefits of connecting smart appliances and energy you’ve produced yourself are clear – thanks to the efficient allocation of energy, you can maximise your self-consumption rate and thus significantly reduce your energy costs.

If you already have a network in your home, this is no problem. Thanks to our open operating system, you can integrate various devices and applications such as energy sources, inverters, heat sources, charging stations and smart home applications with any VARTA energy storage system without any issues.
THE BEST CONNECTION
The output spectrum for the AC-coupled VARTA flex storage system ranges from 36 kW to 600 kW, but systems in the megawatt region are also possible. The energy storage systems are configured with modern power cells of energy cells in accordance with specific customer requirements.

TAILORED MADE FOR COMMERCIAL APPLICATIONS

VARTA FLEX STORAGE E
Big but flexible – this motto is even more applicable for commercial energy storage systems. The flex storage systems provide the right solution for anyone who needs a modular system. The turnkey system concept of VARTA flex makes it possible to select the output and capacity separately.

<table>
<thead>
<tr>
<th>SAMPLE CONFIGURATION</th>
<th>CELL</th>
<th>kW</th>
<th>kWh</th>
<th>W x H x D in cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>VARTA flex storage E 36/75</td>
<td>NMC</td>
<td>36</td>
<td>75</td>
<td>115 x 200 x 67</td>
</tr>
<tr>
<td>VARTA flex storage E 120/225</td>
<td>NMC</td>
<td>120</td>
<td>225</td>
<td>265 x 200 x 67</td>
</tr>
<tr>
<td>VARTA flex storage E 120/300</td>
<td>NMC</td>
<td>120</td>
<td>300</td>
<td>320 x 200 x 67</td>
</tr>
<tr>
<td>VARTA flex storage E 360/675</td>
<td>NMC</td>
<td>360</td>
<td>675</td>
<td>795 x 200 x 67</td>
</tr>
<tr>
<td>VARTA flex storage E 1.080/2.025</td>
<td>NMC</td>
<td>1,080</td>
<td>2,025</td>
<td>2,385 x 200 x 67</td>
</tr>
</tbody>
</table>
OUR SERVICE FOR MORE ENERGY

VARTA FLEX STORAGE E
From analysis and planning through to service and remote maintenance – VARTA Storage provides all-round solutions when it comes to large capacity storage systems.

IT’S ALL ABOUT YOUR SUCCESS
Our specialists make sure that every energy storage system meets the high performance and safety standards of VARTA Storage and the customer’s specific requirements.
Get information now from your certified VARTA specialist partner and receive your personal quote.

Your contact on site: