

# VESTEL RESIDENTIAL BATTERY SOLUTIONS

ENSURING CONTINUITY



**VESTEL**  
Battery Solutions



# VESTEL CITY

VESTEL CITY

VESTEL  
Konya Fabrikası



# VESTEL

With over 38 years of experience, Vestel has more than 20.000 employees and production capability built on advanced technology. Established over a 1.3 million m<sup>2</sup> area in Manisa, Vestel's manufacturing base Vestel City is one of the largest single-site industrial manufacturing complexes in Europe. Vestel has 11 offices based around the world, clientele from 160+ countries, ODM+ production with A-brands, a client-orientated mindset and a dynamic R&D.

Vestel offers consumers a wide product range, which includes consumer electronics, major household appliances, small home appliances, battery solutions, professional displays, and automotive electronics. All of the production facilities are located in Turkey and the battery production plant is located Aegean Free Trade Zone in Izmir.

Thanks to its manufacturing capabilities, strong R&D, and innovation capacity, Vestel is a market driver in global markets with its technological exports.



## Exports

160+ countries



## Export Leader of Turkey

for the last 23 consecutive years



900+ Customers

500+ Brands



## Established over

1.3 million m<sup>2</sup>



20.000+

Employees

# Vestel Sustainability Goals



**Net zero emissions** by 2030, and across the entire value chain by 2050.



Achieving a **100%** sustainable supply chain by 2030.



**Recycling** 50% of the water used by 2030, and 100% by 2050.



Reducing waste by 50% until 2030 and reaching **zero waste until 2050**.





Vestel's vision is to be a technology company creating social and environmental benefits through accessible and smart products that make life easier. We are investing in innovative business models for transition to a net zero emission economy and striving to implement circular models in both our products and operations.

We are developing solutions that meet the needs of the future. We are designing products free from hazardous chemicals, that use recycled and recyclable materials, which are durable, easy to repair as well as energy and water efficient.

We calculate and report our carbon footprint according to the ISO 14064 standard and our water footprint according to the ISO 14046 standard and have these verified by independent third parties. We share our performance transparently through our CDP reports. We aim to reach net zero emissions by 2050, first in our own operations and then throughout our entire value chain. To that end, we aim to switch to technologies that cause less greenhouse gas emissions in production, increase renewable energy investments and manufacture products with high energy efficiency, less water consumption, and resource efficiency benefits.

We aim to strengthen our presence as a global player with our experience, vision, intellectual power, and technological prowess; and we are determined to contribute to a better and livable world, focusing on our environmental, social and governance performance.



Vestel Trade	Manisa
Vestel UK	London
Vestel France	Paris
Vestel Germany	Munich
Vestel Iberia	Madrid
Vestel Holland	Rotterdam
Vestel Russia	Moscow
Vestel Central Asia	Almaty
Vestel Romania	Bucharest
Vestel Poland	Warsaw
Vestel Gulf	Dubai
Vestel USA	New York



***AVAILABILITY***





**Headquarter  
Manufacturing Facility**







# Innovation

tailored to your ideas

**VESTEL's Tailored Technology** approach brings the true meaning of custom design experience and creates the highest level of technology solutions from scratch. VESTEL Battery Solutions R&D team ensures complete client satisfaction by meeting the needs of any project at the highest quality. Combining the latest technology test and simulation tools alongside the design and manufacturing capabilities all in-house.



Fast and Fully Customized Projects by  
Providing Direct Access to our R&D Team.



R&D Investment Amounting to an  
Average 80M USD.



7 R&D Centers in 4 Countries.



Among Top 50 Companies in Patent  
Applications in Europe

# PRODUCTION WITH HIGHEST QUALITY

## **TPM Awarded Manufacturing Facility**

Awarded for World-Class TPM Achievement

## **Auto Grade Production for BMS**

Automotive Grade In-house BMS Manufacturing with IATF 16949 Certification at Europe's biggest automated PCB facility.

## **Automated Production Lines**

Fully automated cell sorting for the best possible cell balancing.

## **Laser Welding**

Fully automated laser welding technology.

## **In-house Accredited Testing Facilities**

Vestel Battery Solutions provides the utmost quality products with highest standards of quality with in-house Accredited testing facilities for environmental, electrical, software and mechanical tests.





Tracking Real Time



ERP Integration



Real Time Planning

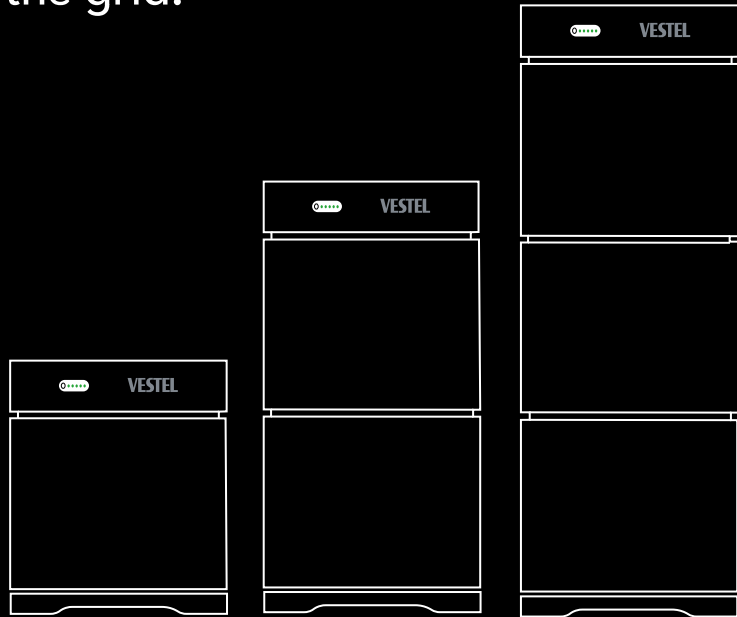


Traceability



# RESIDENTIAL BATTERY SOLUTIONS

Gain your independence from the grid!





## Energy Independence

Residential battery systems enable you to become more self-sufficient. Vestel Residential Battery allows you to reduce your reliance on the electrical grid and can provide power during power outages or emergencies.



## Environmental Benefits

Vestel Residential Battery system enables you to significantly decrease their carbon footprint. Integrating solar panels can escalate these reductions, creating a greener and more sustainable residential energy solution.



## Cost Savings

Lower your utility bills by harnessing and storing energy during low-cost hours for usage in high-rate periods. Furthermore, the Vestel Residential Battery offers a practical way to capitalize on your solar panel installation, enabling you to utilize the energy generated more efficiently.



## Power Outage Protection

Power outages can be annoying. Vestel Residential Battery system can provide backup power during these events, ensuring that refrigerator, lighting, and basic electronic devices remain operational.





# KEY DESIGN FEATURES



## Expandable Capacity

Modular structure of Vestel Residential Battery Solutions allow to expand capacity of battery systems without replacing their infrastructure. With its high energy density and reliability, it's an ideal choice for various applications to adapt and grow with ease while maintaining a high level of performance and reliability.



## Renewable Integration

Solar PV integration feature allows storing energy generated from renewable sources for later use, ensuring a more efficient and sustainable energy system.

# KEY DESIGN FEATURES



## Durability and Longer Life

With patented innovative on-board charger unit, it prevents unnecessary cycling of the battery, ensuring a longer product life and reducing the need of maintenance.



## Safety Protection

Safety is a key priority for Vestel Residential Battery. With our extensive experience in home electronics, we have integrated advanced security features into our product. The system incorporates with intelligent thermal management, over/under voltage&current protection, ensuring the utmost safety for you.

# KEY DESIGN FEATURES



## Remote Monitoring

Homeowners can remotely access real-time data and alerts, monitor various performance metrics, and perform predictive maintenance and firmware updates, ensuring that the battery system is always up-to-date and operating at peak performance.



## Smart Heater

Smart heater also keeps the cell temperature in the optimal range for high performance and longer life.



## Modular and Compact Design

The Vestel Residential Battery features a modular and compact design, offering customers the advantage of space-saving and the flexibility to expand capacity based on their future requirements.

# VESTEL SMART HOME APP



As a consumer electronic company, Vestel Smart Home App is here to control electronic devices and manage energy consumption in the home at only one single platform. App allows you to create room sections to categorize electronic devices, control and monitor your appliances remotely and to follow your energy consumption. With the advent of Vestel Smart Home App for Vestel Residential Battery, managing energy consumption in homes has become easier than ever before. Vestel Smart Home App for residential battery systems has brought numerous advantages to homeowners, including increased control, convenience, and cost savings.

## Mobile App allows users;

- Monitor their energy usage in real-time
- Adjust settings to optimize their battery system's performance
- Receive notifications when their battery is running low or requires maintenance.
- Access historical energy data to identify trends and make informed decisions about energy usage.
- Cost saving by monitoring your energy usage and adjusting settings to optimize performance, homeowners can save money on their energy bills.
- Reduce environmental impact and contribute to a more sustainable future.





Empower your home with smart energy management - monitor, control, and save with just a tap!

# SPECIFICATIONS



PARAMETERS	VSTL - RESS - 5	VSTL - RESS - 10	VSTL - RESS - 15
Number of Battery Modules	1	2	3
Battery Module Energy	5.12 kWh		
Battery Nominal Voltage	48V		
Battery Usable Energy	5 kWh	10 kWh	15 kWh
Max Output Power	2,5	5	5
Mechanical			
Dimensions (W*D*H) (MM)	600*180*693	600*180*1186	600*180*1680
Weight (kg)	74	130	186
Installation	Floor Stand		
Environment	Indoor/Protected Outdoor		
Cooling	Natural Cooling		
Scalability	2 systems in parallel operation		
Discharge Operating Temperature	-20°C to 45°C		
Charge Operating Temperature	-20°C to 45°C On board charger and heater support mechanism JEITA Charge Algorithm		
Protection Rating	IP54		
Cell Technology	LFP		

TAILORED TO  
OUR FUTURE



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