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## Stackable Hybrid Supercapacitor



Sürdürülebilir Yenilikçi Avrupalı

## Stackable Supercapacitor High quality



### Stackable energy storage

The "Stackable Power Bank" is ideal for residential and light commercial use, offering a versatile and scalable energy storage solution. Configurable from "6kWh to 48kWh", it allows users to customize the capacity to meet their specific energy needs.

#### Charge and discharge stage

Fast charging and discharging from 0.3 to 10C, lithium batteries up to 0.5C and up to 2C for more expensive versions.

DOC 100%, DOD 100% (95%, BMS related) without reducing life expectancy <> Lithium batteries up to 80%.

#### Life expectancy

Over 32,000 cycles (80% EOL) or over 46,000 cycles (70% EOL) <> For lithium batteries 6,000 cycles (up to 10,000 possible in more expensive versions with 70% EOL).

#### Fire protection

No fire risk. No Thermal runaway possible and the graphene in the Hybrid Supercapacitor removes the oxygen in the event of a fire.

“ Save money with our storage solutions



Superfast  
Charging



Fire-Safe



Long  
Cycle Life

## What is a Stackable Power Bank

The Stackable Power Bank is designed for residential and light commercial use, offering flexible energy storage from 6kWh to 48kWh.

#### Flexible Capacity Configuration

- Scalable Design: The system can be configured to meet varying energy storage needs, from a minimum of 6kWh to a maximum of 48kWh. Stackable Modules: The modular design allows for easy scaling by adding or removing battery packs as needed.

#### Advanced Battery Management

- Built-in Balance Management Unit: This feature ensures the optimal use of the battery capacity, enhancing the efficiency and lifespan of the power bank. Increased Usable Capacity: Effective management increases the overall usable capacity of the battery packs.

#### User-Friendly Electrical Interface

- Simple Connection: The electrical interface is designed for straightforward connection to loads, making installation and integration seamless. Optional Inverter Module: For those requiring AC power, an inverter module is available as an optional add-on, offering greater flexibility in power output.

#### Compact and Flexible Design

- Market-Leading Compactness: The power bank's compact design makes it a space-efficient solution for energy storage. Flexible Configuration: Its design and modularity allow for custom configurations tailored to specific energy needs, positioning it as a market-leading product.



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# Flexible Stackable Power Bank

FE512V30KWh31H Stackablepowerbank isfor residential or light commercial use. It is flexible from 6Kwh to 30Kwh configuration. Stackable power bank's electrical interface provides a simple connection to inverters. Compact design and flexible configuration lead it to market-leading products.

## Performance Specifications

Total Energy	3Kwh/60Ah
Usage Energy	2.85Kwh
Nominal Voltage	51.2V
Charging current	50A
Discharging current	50A
Cycle life	32000 times
Temp range/Discharging	-30~55°C
Temp range/Charging	-20~55°C
Storage humidity	5~95%
Communication port	CAN
WIFI	Yes



## Optional Capacity

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# Choose the option that suits you best.

Choose fromdifferentmodelstofindtheperfect fit for your energy needs.

## Performance Specifications

Total Energy	6.14Kwh/120Ah
Usage Energy	5.83Kwh
Nominal Voltage	51.2V
Charging current	100A
Discharging current	100A
Cycle life	32000 times
Temp range/Discharging	-30~55°C
Temp range/Charging	-20~55°C
Storage humidity	5~95%
Communication port	CAN
WIFI	Yes
Dimension	730*550*133mm
Weight	Weight



## Optional Capacity



# Our solutions

## Residential wall storage solution

Our residential wall energy storage solution covers 6 ~14 kWh and is mainly designed for PV self-consumption, emergency power, peak shifting and off-grid solutions for residential applications.



## Commercial & Industrial containerized solution

Our commercial and industrial energy storage solutions range from 20kWh to +++ MWh. Applications include demand charge management, PV self-consumption and backup power, fuel-saving solutions, microgrid and off-grid options.



## Commercial & Industrial Rack solution

Our Rack combines the best features of supercapacitors and traditional batteries. This innovative system offers superior energy density, faster charge times and longer life, making it a perfect choice for a wide range of applications. It serves as ideal back-up for instant power supply, Seamless Switch to off grid mode in the very short time and realize the Uninterruptible power supply



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#### ENERGY MANAGEMENT

Demand response, peak shaving,  
and load balancing services

#### SMART ENERGY

Hybrid energy storage  
solutions

#### EXPERT TEAM

A reliable, trained, and technically  
equipped partner network

# FOR.E

FoR-E is a technology company dedicated to developing sustainable battery solutions that shape the future of green energy in Europe. Our vision is to support regional innovation and contribute to economic growth by producing environmentally friendly and high-tech batteries within Europe.

With a strong commitment to the circular economy, we aim to maximize recycling rates, minimize waste, and create a sustainable lifecycle.

Through our solutions, we contribute to building a cleaner, more resilient, and reliable energy infrastructure, setting new standards in environmental responsibility and technological excellence.

With Europe's creativity and vision for sustainability,  
we are building the energy of tomorrow, today.

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