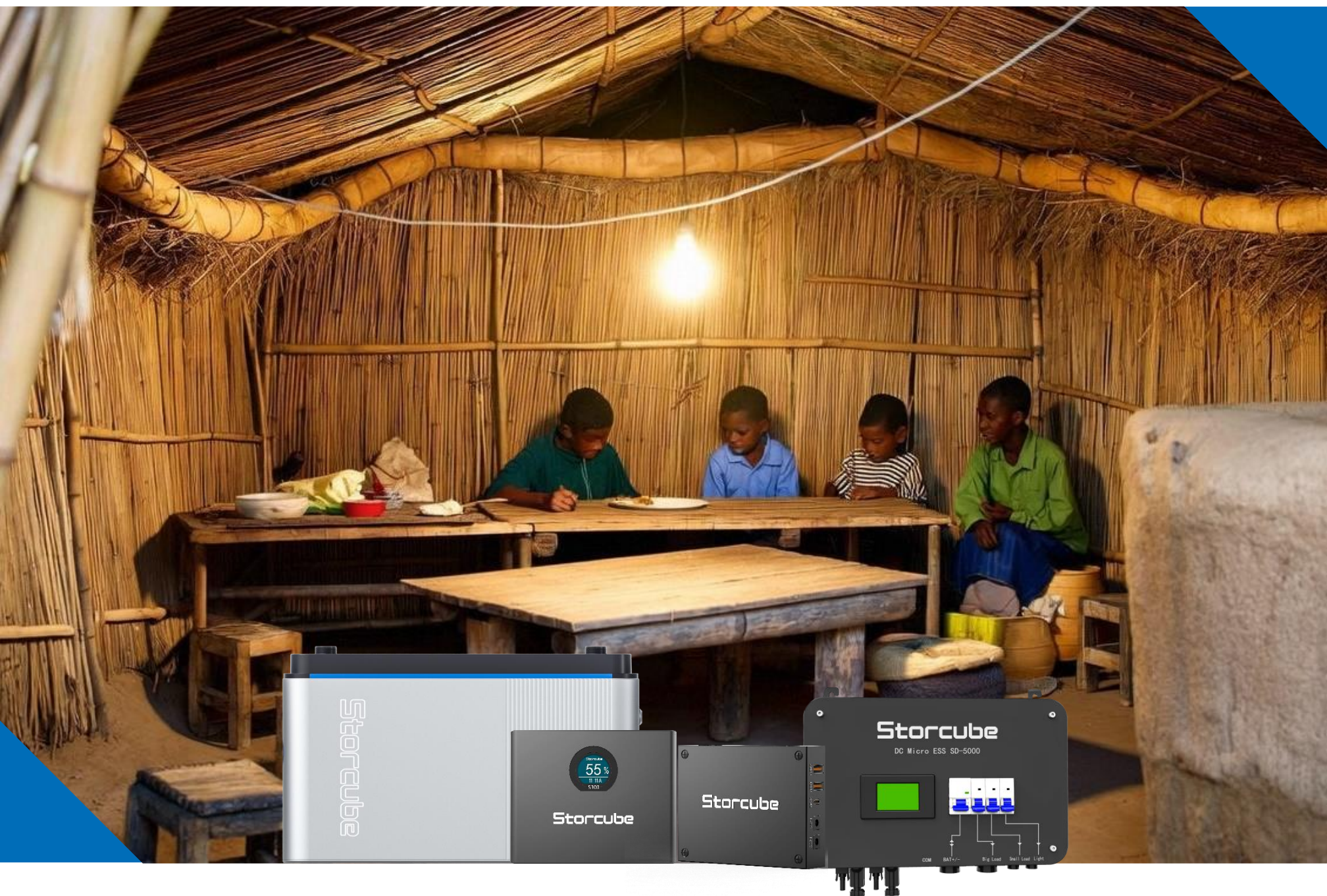


# Storcube

## Residential DC Microgrid System



Let Energy Storage Walk into Life.

**Residential DC Microgrid System** is an advanced direct current power network tailored for household applications. It seamlessly combines solar photovoltaic (PV) systems, energy storage solutions, and DC-powered devices to enhance clean energy utilization, ensure energy independence, and optimize power management. Unlike conventional AC grids, the DC microgrid is built around direct current, significantly reducing energy losses from AC/DC conversions. This design delivers superior efficiency and adaptability, making it a cutting-edge solution for sustainable and efficient energy systems.

## Working Principle

### Compact Model

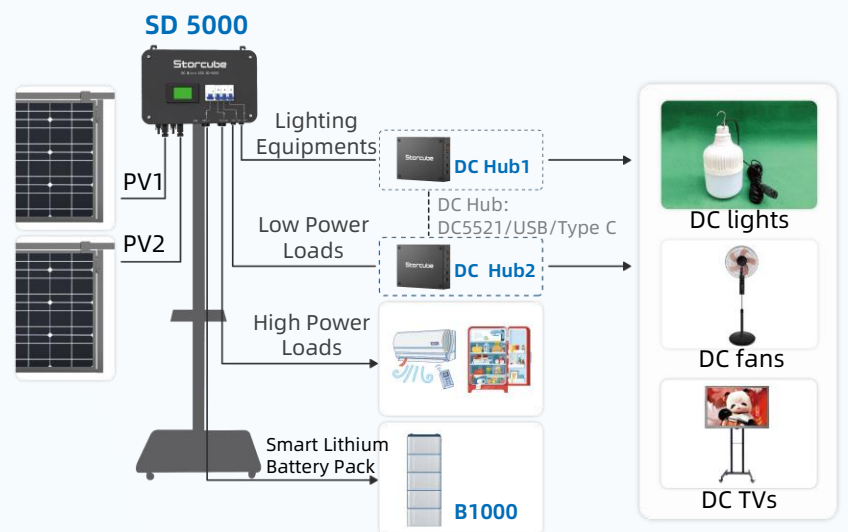
Multiple Interfaces | Portable Setup



\*Supports unlimited port expansion via the DC Hub.

### Standard Model

5000Wh max. | Fixed installation



## Solution Advantages

### Portable and Mobile

Designed for on-the-go use, the system can be handheld or paired with a mobile stand for flexible mobility, enabling energy to follow wherever you go. As a portable power solution, it brings the convenience of mobile energy to your home and outdoor activities.

### Plug-and-Play

Easy to install and operate, the system requires only a simple connection to solar panels and DC loads to start functioning immediately.

### DC Efficiency

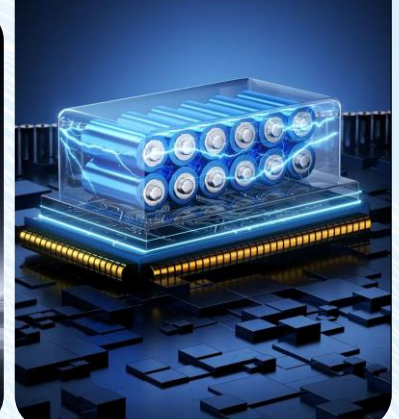
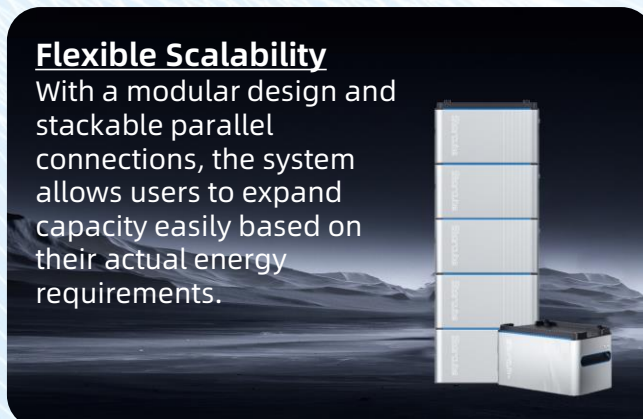
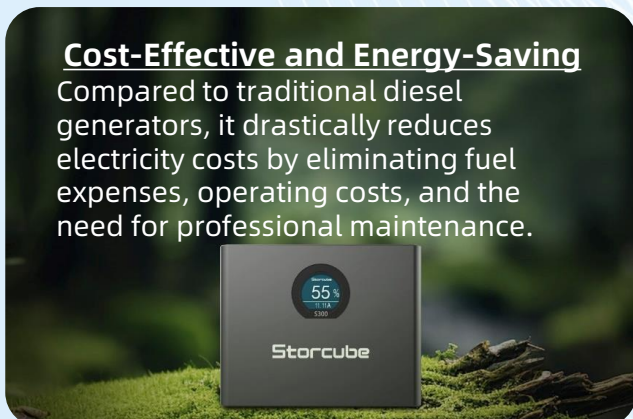
Directly harnesses DC power from solar panels and stores it in smart lithium battery packs, avoiding energy loss from traditional DC-AC conversions and significantly improving energy efficiency.

### Cost-Effective and Energy-Saving

Compared to traditional diesel generators, it drastically reduces electricity costs by eliminating fuel expenses, operating costs, and the need for professional maintenance.

### Flexible Scalability

With a modular design and stackable parallel connections, the system allows users to expand capacity easily based on their actual energy requirements.



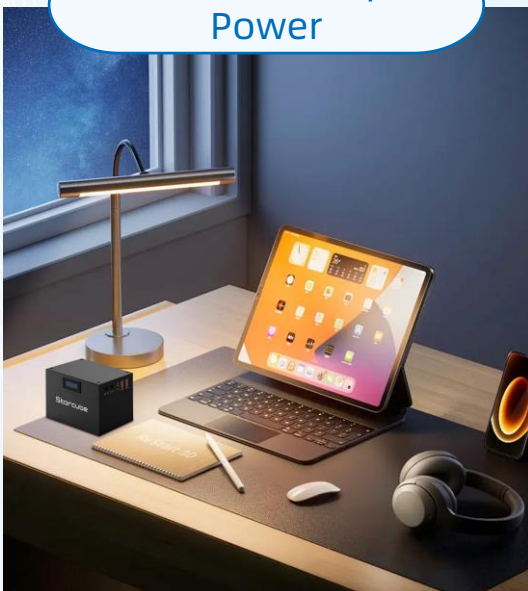
# Storcube S230 / S300 DC Power Box

The Storcube S230 S230 / S300 is a compact, portable DC energy storage solution that supports charging via solar panels or mains power (Type-C interface). Designed for low-power DC devices, it features multiple output ports to power DC appliances like TVs and fans and serves as a portable power bank for emergency laptop charging. Its lightweight, portable design makes it ideal for regions with limited power infrastructure, such as remote areas in Southeast Asia and Africa.



## Scenarios

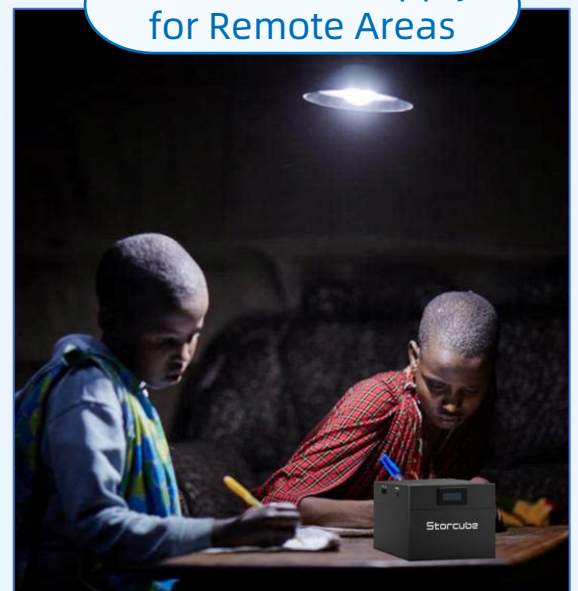
Home Backup Power



Outdoor Activities



Basic Power Supply for Remote Areas



## Advantages



### Versatile Charging Options

Supports solar panel and Type-C AC charging, adaptable to various power needs.



### Wide Compatibility

Equipped with multiple DC and USB ports for direct connection to a range of devices.



### Portable & Lightweight

Compact design allows for easy carrying and fits small spaces.



### Eco-Friendly & Energy-Saving

Solar charging helps reduce energy costs and dependency on the grid.



### Reliable Backup

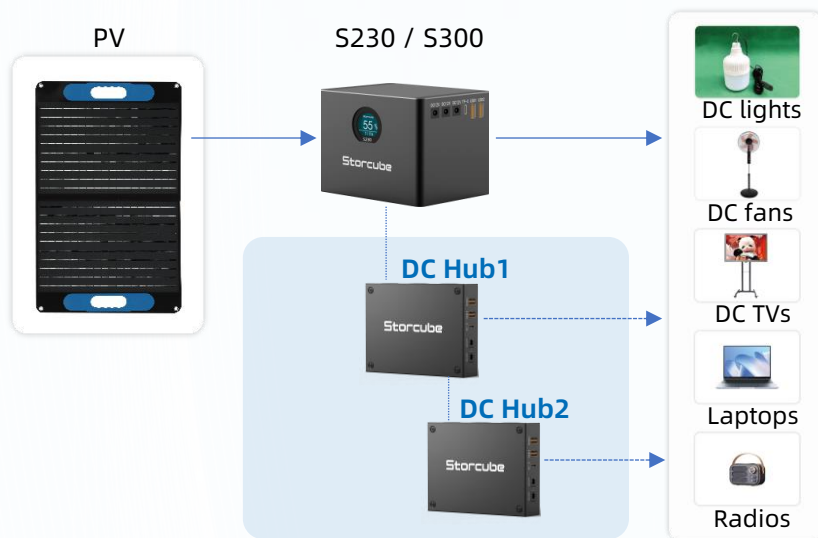
Acts as an emergency power source for devices like laptops, ensuring continuous operation.

# Storcube S230 / S300 DC Power Box



Item	Parameter	
Product Name	DC Power Station	
Product Model	S230	S300
Dimensions (L*W*H)	127*97*100 (mm) ; 5.0*3.8*3.9 (in.)	
Battery Voltage	22.2V	
Battery Capacity	230Wh	300Wh
Battery Type	Li-ion	
PV Input	200W	
DC XT60	24V/10A, 1 outputs; Supports bidirectional charging and discharging	
USB-A	1 output, 5V/2.4A,12W	
USB-A Fast Charge	1 output, 5V/2.4A, 9V/2A, 12V/1.5A,18W	
Type-C	1 output, 5/9/12/15/20V-5A,100W	
DC5521	3 outputs, 12V/3A, maximum power 36W per output.	
LCD	Display voltage, capacity, and other information.	
Supported Household Appliances	Mobile phone,lighting, fan, TV, flashlight, radio,laptop, etc.	
Protection Function	Yes	

# Storcube DC Hub



Supports unlimited port expansion via the DC Hub.

The Storcube DC Hub is an integrated device designed for connecting and expanding DC-powered equipment. It offers multiple ports to seamlessly connect electronic devices such as laptops, smartphones, and tablets with peripherals like monitors, keyboards, mice, and external storage, while providing reliable DC power supply.

## Product Advantages

### Versatile Connectivity

Equipped with 11 DC ports, supporting simultaneous connections for various devices.

### Space-Saving Design

Eliminates the need for extra power adapters and sockets, optimizing workspace and desktop organization.

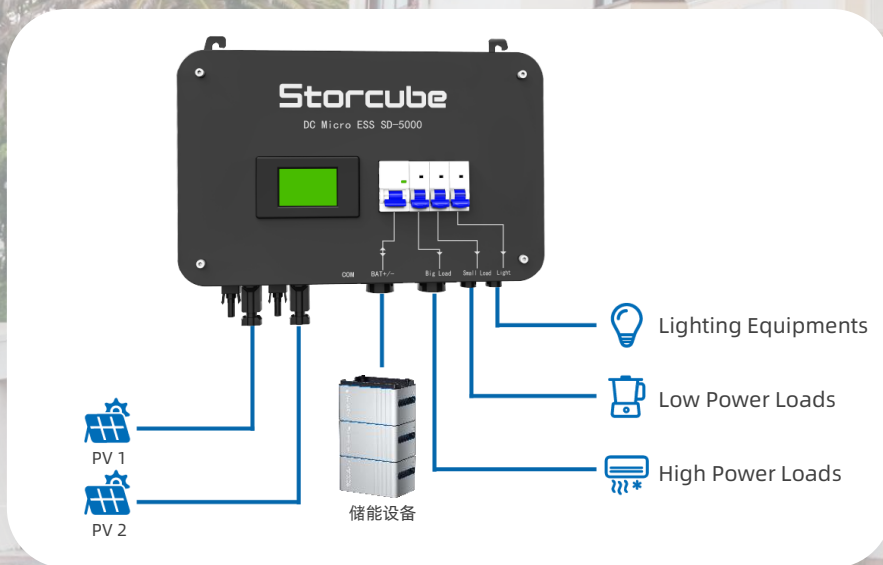
## 11 Ports for Multi-Device Expansion



Item	Parameter
Output Power	1000W
USB-A	1 port, 5V/2.4A
USB-A (Fast Charging)	1 port, 5V/2.4A, 9V/2A, 12V/1.5A
Type-C	1 port, 5/9/12/20V-5A, 100W
DC5521	2 ports, 12V/3A, maximum output 36W per port
DC	24V/10A, 6 ports, supporting various expansions

# Microgrid Photovoltaic DC Module SD5000

The SD5000 is a high-efficiency, stable, and intelligent DC-DC converter designed specifically for solar energy storage systems. It efficiently converts solar energy into stable DC power for battery storage or direct supply to various DC loads. Ideal as a core component for off-grid home systems, photovoltaic applications, and portable energy storage devices.



## Product Advantages

### Power Supply

Effectively address Africa's electricity shortage, meeting basic power needs, and ensuring the normal operation of daily life and production activities.

### Economical and Efficient

Significantly reduce electricity costs compared to traditional diesel generators, with no fuel expenses or operating costs, and no need for professional maintenance.

### Plug and Play

Easy to install and operate. Simply connect the solar panels and DC loads for immediate use.

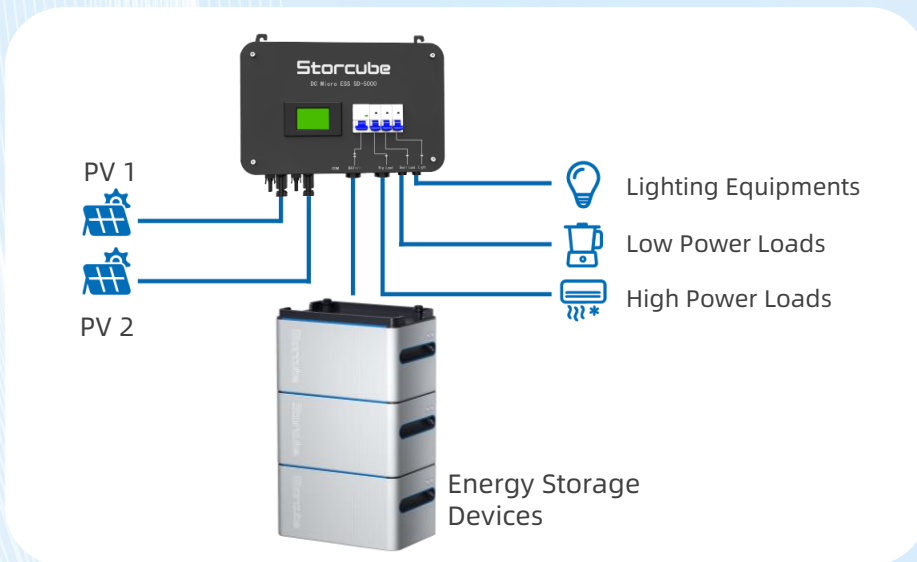
### Flexible Expansion

Modular design and stackable parallel connections allow users to expand system flexibly according to their actual electricity usage.

Item		Parameter
Input	MPPT Input Channels	2 channels
	Maximum Input Power per Channel	500W * 2
	MPPT Input Voltage Range	18-55V
	Maximum Input Current per Channel	13A * 2
Output	Capacity	1kWh-5kWh
	Total Output Power	5000W
	Output Channels	3 channels
	Rated Output Voltage	51.2V
Others	Communication Method	485
	Dimensions (excluding battery)	12.99*8.27*2.64(in) / 330*210*67(mm)


# Smart Lithium Battery Pack B1000


The B1000 is a cost-effective energy storage and power pack designed to meet the demands of DC microgrid energy storage. It is also suitable for AC microgrid storage and portable power expansion. The B1000 features flexible scalability and user-friendly operation, making it an adaptable and efficient solution. Equipped with a built-in LiFePO4 battery and an advanced Battery Management System (BMS), it ensures stable performance in various environments, with a lifespan that matches the battery's durability.



## Product Advantages

  
Convenient Scalability at Lower Costs

  
User-Friendly Operation

  
Durable and Reliable

  
Safe, Efficient, and Versatile

	Item	Parameter	Remarks
Main Unit	Capacity	1024 Wh	
	Dimensions (L×W×H)	330*210*195(mm)	Single pack
	Weight	11Kg	
	Battery Type	LiFePO4	
	Cycle Life	≥6000 cycles	
	Maximum Output Power	800W	
	Output Voltage Range	20-45V	
	Protection Rating	IP65	
	Charge/Discharge Operating Temperature	-20°C~45°C	Heating activates below 5°C; charging enabled above 0°C.
	Electric Heating Startup Temperature	< 5°C	
Protection	Overcharge, Over-discharge, Overcurrent, High Temperature, Low Temperature, Short Circuit protection	Support	
Others	Heating Function	Support	
	Balancing Mode	Support	
	Communication	CAN	

# Storcube

Let Energy Storage Walk into Life.

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