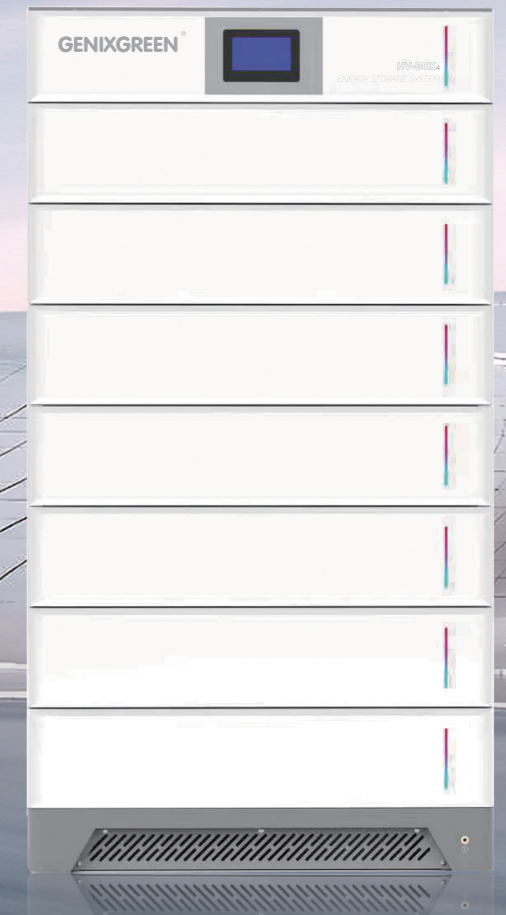


# GENIX ENERGY GREEN LIVING

GENIXGREEN<sup>®</sup>

## HV-BOX4

Energy storage system



### HV-BOX4

- Modular stackable design
- 10.24kWh high capacity per unit
- 3-7 units scalable
- Flexible and efficient installation



Modular stackable design,  
simple and generous appearance



Flexible and  
quick installation



Safe and reliable  
Longer cycle life



Lithium iron phosphate  
battery cell, safe and stable



Built in fan accelerates  
heat dissipation



Smart BMS  
high power

## Parameters

Product Model		HV-BOX4-Series				
Main Parameter						
Battery Type		LiFePO4				
Module Energy (kWh)		10.24				
Module Nominal Voltage(V)		102.4				
Rated Energy(Ah)		100				
Number Of Modules Connected In Series (Optional)		3	4	5	6	7
System Rated Voltage(V)		307.2	409.6	512	614.4	716.8
System operating voltage (V)	Charging voltage	345.6	460.8	576	691.2	806.4
	Discharge voltage	268.8	358.4	448	537.6	627.2
System Nominal Energy (kWh)		30.72	40.96	51.2	61.44	71.68
System Discharge Energy (kWh)		29.49	39.32	49.15	58.98	68.81
Charging/Discharging Current (A)	Rated Current	50				
	Max. Current	100				
	Overload Current	115(10 sec,25°C)				
Status Indicator Light		Blue: battery system start status, green: battery system running status, red: battery system fault status				
Communication Protocol		CAN2.0				
Working Temperature Range (°C)		-10 ~ 55				
Working Humidity Range		≤95%(No condensation)				
Working Altitude		≤2000m				
System Cooling Method		Fan cooling				
Protection Grade		IP20				
Installation Location		Indoor				
Weight(kg)		303	399	495	591	687
Max.Dimension(mm)		758*635*740	758*635*900	758*635*1060	758*635*1220	758*635*1380
Storage Temperature(°C)		0~35				
Recommended Discharge Depth		90%				
Cycle Life		≥8000 Cycles (25°C±2°C, 0.5C, 80%DOD@65%EOL)				
Certification		Cell UL1973/IEC62619/UL9540A/TUV/CE/UN38.3				
Warranty		5 Years(Under Warranty Terms)				
Energy Throughput <sup>①</sup>		67MWh	89MWh	112MWh	134MWh	156MWh

[1] Conditions apply, refer to GENIXGREEN warranty letter.

## Application scenarios



### Product Model HV-BOX4-PDU 1000VDC100A(WIFI)

Working Voltage Range	250~1000Vdc
Rated Charging/Discharging Current	50A
Max. Charging/Discharging Current	100A
Operating Temperature Range	-10~55°C
Waterproof Rating	IP20
Dimension(W*D*H)	758*635*160mm
Weight	≈15kg
Parallel Operation	Support



### Product Model HV-BOX4-32S100A

Battery Type	LiFePO4(LFP)
Rated Voltage	102.4Vdc
Rated Energy Capacity	100Ah
Rated Power	10.24kW
Rated Charging/Discharging Current	50A
Max. Charging/Discharging Current	100A
Operating Temperature Range	-10~55°C
Waterproof Rating	IP20
Dimension(W*D*H)	750*626*177mm
Weight	≈96kg



**PS:** This energy storage system is designed for indoor energy storage applications and supports multi-cluster parallel operation. However, the parallel operation function must be used together with an industrial air-conditioning system whose cooling capacity matches the PCS power and the battery operating power for heat dissipation. Parallel operation is prohibited if an industrial air conditioner with matching cooling capacity is not installed.

Parallel operation also requires the use of dedicated BMS control software. Please refer to the Parallel Operation Manual for detailed instructions. For the above technical requirements, please contact our company's technical personnel for confirmation. System upgrades and parallel operation may only be carried out under the guidance of our technical team after proper communication and approval. Unauthorized parallel operation is strictly prohibited, as it may result in serious safety accidents. <Systems operating with 2 to 4 clusters in parallel may maintain 0.5C charge and discharge current only when the cooling conditions meet the system's thermal design requirements. Any parallel configuration exceeding 4 clusters is considered a special operating condition and must be handled by our technical personnel. Unauthorized operation is strictly prohibited.>

The selected inverter model must be compatible with the voltage range of this product.

The system is configured with 7 energy storage modules, with a rated operating voltage range of 300V~900V DC.

If Deye-brand inverters are used, the inverter must be selected according to the number of stacked modules as follows:

When 6 modules or fewer are stacked: A Deye 50kW inverter may be selected. The inverter's maximum DC input voltage is 800V, and the total module voltage must not exceed this limit.

When all 7 modules are stacked: A Deye 80kW inverter must be selected. The inverter's maximum DC input voltage is 1000V, which fully covers the total voltage range of the modules.

Safety Warning: System overvoltage operation is strictly prohibited. The inverter selection must be strictly matched with the actual number of stacked modules and the total system voltage.