

# HV-10 614V100Ah

High Voltage Stackable Energy Storage System



## Product introduction

HV-10 614V100Ah features a modular design, combining lithium iron phosphate batteries, high voltage control box, intelligent BMS, natural cooling system, etc. It boasts safety, reliability, rapid deployment, cost-efficiency, high energy efficiency, and intelligent management.

## Product Features



Support 3-7PCS battery modules connected in series, flexible extension



OTA Remote upgrade, simple maintenance



Intelligently identify the master-slave batteries without DIP address



Support 6 clusters in parallel to get more energy



Easy connection for **Wi-Fi** remotely monitoring system anytime and anywhere



Modular design, easy to install, plug-and-play cable connection design



Adopt advanced BMS algorithms and use Cloud to achieve BMS full-time balancing which can ensure battery product SOC calculation is more accurate



BMS uses Cloud to achieve remote real time balance and increases the battery pack cycles performance so that the battery can be guaranteed for more than 10 years



When more than 2 clusters are connected in parallel, there is no need an extra Combiner BOX. Direct connection reduces installation costs and equipment costs

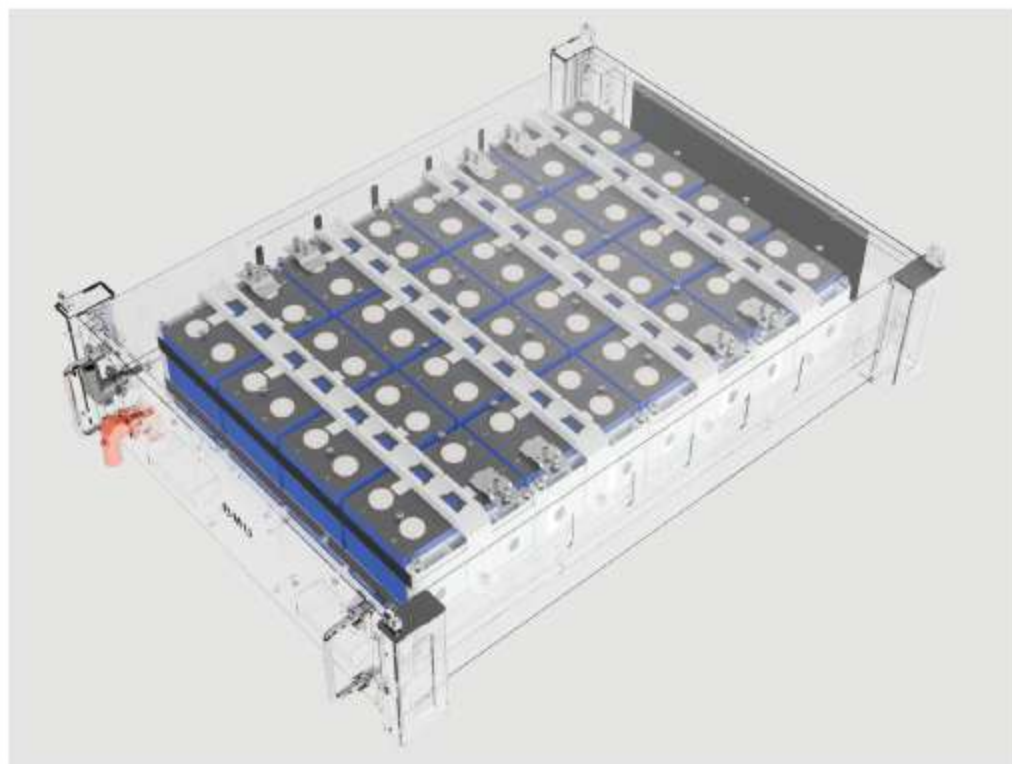


Support Max. 1C charge & discharge



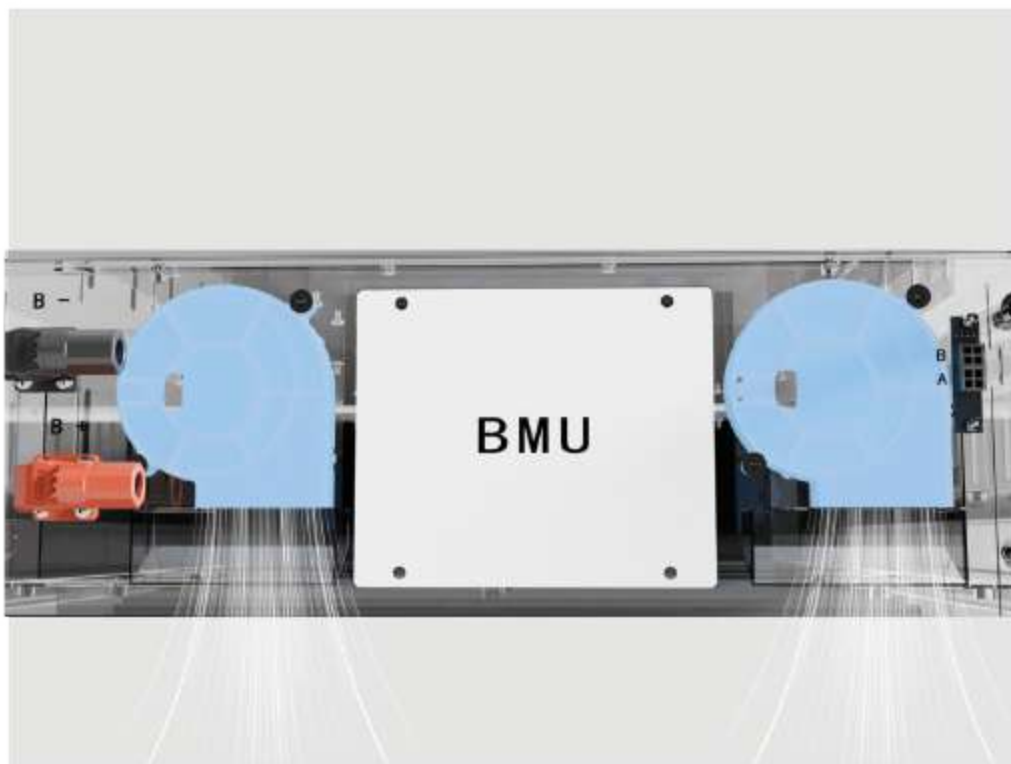
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## Energy storage system



### Optimized structural safety

A+ quality EVE cell, 6000 cycles at 90% DOD  
End-plate technology



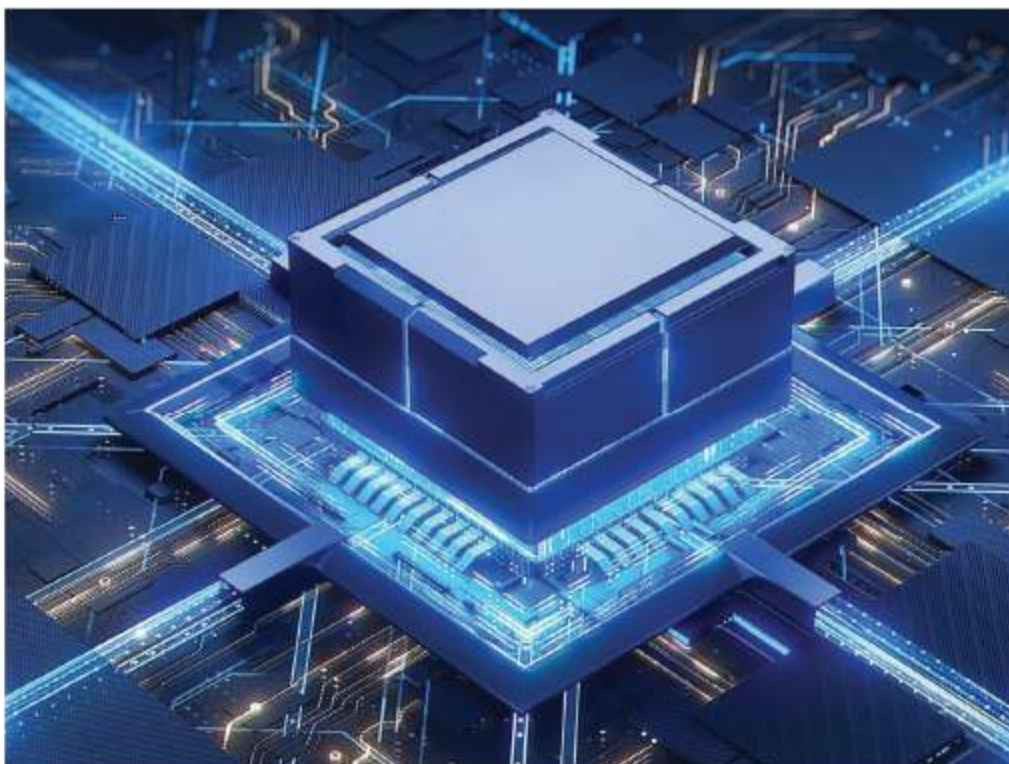
### Air-cooled design

Built-in high-volume turbo fan covers, strong cooling performance



### Quick connector Design

Plug-in cable design for easy installation



### Full-time equalization BMS

Synchronized intelligent regulation of cell voltage at any time condition and temperature

## Product Model

HV-Tower-32S100

### Basic Parameters

Energy	10.24kWh
Nominal Voltage	102.4Vdc
Nominal Capacity	100Ah
Voltage Range	89.6-115.2Vdc
Depth Of Discharge	90%
Dimension	745*517*153mm
Protection Grade	IP20
Net Weight	75kg
Operation Temperature	0-50°C
Storage Temperature	-20~60°C
Certificate	CE/UN38.3/MSDS



### High-Voltage-Battery cluster control box



Product Model	HV-PDU 1000VDC100A
Basic Parameters	HV-10
Related Product	200-1000Vdc
Controller Working Voltage	200-1000Vdc
System Operation Voltage	100A(Max.)
Charge/Discharge Current	30W
Self-Consumption Power	745*517*240mm
Dimension	Modbus RTU/CAN
Communication	IP20
Protection Grade	25kg
Net Weight	0-50°C
Operation Temperature	-20~60°C
Storage Temperature	



# HV-10 614V100Ah



## Energy storage system



### Function Parameters

Product Model	HV-10 Series
Nominal Energy	10.24*n kWh
Battery System Voltage	102.4*n Vdc
Battery System Capacity	100Ah
Battery Module	HV-Tower-32S100
Battery Module Energy	10.24kWh
Battery Modules Qty.	2-7 (Optional )
Battery System Charge Upper-Voltage	115.2*n Vdc
Charge/Discharge Current(Standard)	50A
Charge/Discharge Current(Normal)	80A
Charge/Discharge Current(Max.)	100A
Battery System Discharge lower-Voltage	89.6*n Vdc
Efficiency	98%
Depth Of Discharge	90%
Dimension	755*527*1660*N(N≤7)
Communication	Modbus RTU/CAN
Net Weight	100kg+75*n kg
Operation Life	10+years
Operation Temperature	10~40℃
Storage Temperature	-20~60℃
Humidity	5%~95%
Altitude	< 2000m
Certificate	Cell UL1973/IEC62619/UL9540A/TUV/CE
Cycle Life	25±2℃/0.2C/80% DOD≥7000
Parallel CAN	yes≤4
<p>● Note: The parallel operation of 2 clusters of batteries allows a maximum current charge and discharge of 1C, the parallel operation of 3 clusters of batteries allows a maximum current charge and discharge of 0.8C, and the parallel operation of 4 clusters of batteries allows a maximum current charge and discharge of 0.7C; if the number of parallel battery clusters is &gt; 4, You must contact our company's technical personnel for communication and confirmation before upgrading and guiding the operation and paralleling.</p>	