

BYHV-1000SAC

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# VoyagerPower 2.0 Air **Cooling Energy Storage System**



## **Product Introduction**

VoyagerPower 2.0 is a container energy storage system introduced by Beny, covering BESS from 1MWh~5MWh.

ESS adopts an "All-In-One" design concept, with ultra-high integration that combines energy storage batteries, BMS (Battery Management System), PCS (Power Conversion System), EMS(energy management system), fire protection, air conditioning, and more into a single unit, making it adaptable to various scenarios.

This product features a prefabricated cabin design flexible deployment, convenient transportation, and no need for internal wiring and debugging. It responds quickly, boasts high reliability, and offers functions such as peak shaving, power capacity expansion, emergency backup power, grid balancing, capacity management, and multi-level parallel connection.

# **Application Scenario**

grid side: load corresponding, peak regulation, grid dispatching, energy transfer;
user side: peak cutting and valley filling, anti-reflux zero feedback, time-of-sale price, optical storage and charging;
micro-grid: light storage and firewood micro-grid, automatic and off-grid switching, black starting;

## **Product Features**

#### Safe and reliable

IP55 protection grade design, cluster level aerosol layout, BMS and AC/DC multi-layer protection Settings to ensure the safe operation of the system:

#### Cost optimization

Small size, light weight, save floor space and installation costs, can be pre-installed whole system transportation, long life, low failure rate, low operation and maintenance costs;

## **Efficient and convenient**

Batteries, PCS, etc., all adopt modular design for easy installation and transportation, and can remotely guide configuration, equipment management, data analysis, fault prediction, etc.

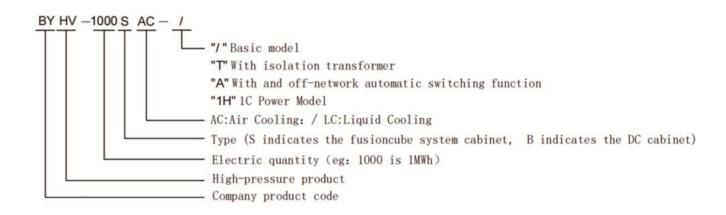
#### Rich scene

Application strategies can be customized in different environments to meet product requirements;

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# **Specifications and Model Description**



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## **Product Parameter**



Type designation	BYHV-1000SAC BYHV-1000SAC-1H			
Battery Data				
Cell type	LFP 3.2V / 280Ah			
Battery configuration	(1P16*15)×5			
Battery capacity	1	075.5kWh		
Battery current	655A	1310A		
Battery voltage range	6	524V~876V		
AC Output (On-grid)				
Nominal AC power	500kW	1MW		
Nominal AC voltage	400Vac 3P4W+PE/3P3W-PE			
Max. output current	794A	1588A		
THDi	<3% (at rated power)			
Grid frequency range	50Hz/60Hz (settable)			
AC voltage range	-15%~10% (settable)			
Power factor	>0.99 (at rated power)			
AC Output (Off-grid)				
Rated AC output voltage	400Vac			
Voltage accuracy		1%		
Max. output current	794A	1588A		
THDi	<3%	% (linear load)		
Rated output frequency	50Hz /60Hz			
Overload capability	110% overload			
System parameter				
Isolation method	Isolation 7	Isolation Transformer(option)		
Automatic and off-grid	Support(option)			
Dimension (W*H*D)	605	58*2591*2438		
Weight	16000Kg	16200Kg		
IP grade	IP55			
Anti-corrosion degree	C3(Support C5)			
Operating temperature	-30 to 55°C(>45°C derating)			
Operating humidity	0 ~ 95%(non-condensing)			
Working altitude	3000m			
Temperature control	Intelligent air cooling			
Fire suppression system	NFPA 69 explosion prevention and Aerosol			
communication protocol	Modbus TCP, MQTT			
Standard	IEC 62477, IEC 61000-6-2, IEC 61000-6-4, IEC 62619, EN 50549-1, NC RfG, EN 50549, VDE-AR-N4110,UN 38.3/UN 3536			

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