

All-in-One Residential Energy



Storage System

ESS-SAH5B10-A-EU



Key Features:

- **Easy Installation**

With just 3-step cable connection, you can set up a residential ESS.

- **Good Components, Good Quality**

CATL Cells inside
Tier 1 PCS build-in

- **7% Increase in Usable Capacity**

UNV B10 provides 97% of the rated battery capacity to be usable, while others only 90%.

- **Smart Control and Monitor**

With APP, you can control and monitor ESS just by fingertips.

- **As Long as 15-years Lifespan**

6000+ cycles over 70%SOH
3500+ cycles over 80%SOH

- **On-Grid & Off-Grid Hybrid ESS System**

Minimize the modifications of home circuitry

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Specifications

Model		ESS-SAH5B10-A-EU	
Battery Type	LFP	Voltage Range	44.8V~57.6V
Configuration	2P16S	Rated Charging Current	100A
Rated Voltage	51.2V	Max. Charging Current	120A
Rated Capacity	200Ah	Rated Discharging Current	100A
Rated Energy	10.24kWh	Max. Discharging Current	120A
PV Parameters			
Max. PV Generation Power	6500W	Max. Short Circuit Current	13.8/13.8A
Max. DC Voltage	580V	MPPT Voltage Range	125~550V
Rated DC Operating Voltage	360V	MPPT Number	2
Max. PV Input Current	11/11A		
On-Grid Parameters			
On-Grid Rated Power	4600VA	On-Grid Rated Current	21.7A
On-Grid Rated Voltage	230V	Max. AC Current	24.5A
On-Grid Rated Frequency	50/60Hz	Power Factor	0.8 lead~0.8 lag
Electrical Connection	L/N/PE	THD	<3%
Off-Grid Parameters			
Off-Grid Rated Power		4600VA	
Off-Grid Rated Voltage		230V	
Off-Grid Rated Frequency		50/60Hz	
Electrical Connection		L/N/PE	
Max. Protection Current		30A	
Max. Short Circuit Current		43A (10s)	
Peak Power		6900VA (3s)	
UPS Switching Time		0.01S	
Operating Conditions			
Ambient Temperature		Charge: 0-55°C; Discharge: -20-55°C	
Humidity		5~95%, no condensing	
Altitude		≤2000m	
Mounting		Floor standing	
General Parameters			
Weight		160kg	
Dimensions (W*D*H)		700*212*1320mm	
Protection Rating		IP65	
Cooling		Natural cooling	
Cycle Life		≥6000 cycles (@25±2°C, 0.5C/0.5C, 90%DOD, 70%EOL)	
Certifications		CE-LVD, CE-EMC, CE-RED, UN38.3, MSDS	

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Portable Home Backup Power Station



ES-E1000/E2000/E2500



Key Features:

- **Enhanced LFP Battery**
Full-tab Technology, 1/10 internal resistance of others
No fire when short circuit occurs internally in battery (passed Nail Penetration Test)
- **Safer than Expectation**
Redundancy & backup protection system
10 temperature detection points
Start self-protection within 40ms to ensure safety
- **Easy to Use**
Full support off-grid functions of home ESS
Plug and play
Installation-free
- **EPS**
Emergency power supply
Automatically switch within 30ms
- **Enjoy No-Carbon Life**
Support PV panels up to 800W, without any fuel costs, noise, and pollution.
- **Smart AC Output Technology**
When the power of some equipment exceeds 1.25 times the rated AC output power, it can supply power uninterruptedly
- **AC Fast Charge Capacity**
To charge 0 to 100% in 1.7~2.5 hours

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Specifications

Model	ES-E1000-A2	ES-E2000-A2	ES-E2500-A2
Rated Capacity	998Wh, 39000mAh/25.6V	1872Wh, 39000mAh/48V	2496Wh, 52000mAh/48V
Battery Type	LFP Lithium Battery		
Weight	12kg/26.5lbs	22.5kg/49.6lbs	25.5kg/56.2lbs
Dimensions	380*214*264mm (15.0*8.4*10.4 in)	518*293*323mm (20.4*11.5*12.7 in)	
AC Input	800W Max	1400W Max	
DC Input	Anderson: 13.2~20V/22A, 400W Max (Carport: 13.2V8A) (Solar Panel MPPT:18~20V/22A, 400W Max)	Anderson: 13.2~40V/22A, 800W Max (Carport: 13.2V8A) (Solar Panel MPPT: 18~40V/22A, 800W Max)	
AC Output	230V~50Hz/60Hz (Pure Sine wave)*2 Continual 1000W, Peak 1800W	230V~50Hz/60Hz (Pure Sine wave)*4 Continual 2000W, Peak 3300W	230V~50Hz/60Hz (Pure Sine wave)*4 Continual 2500W, Peak 4500W
DC Output	USBC Max100W*2; USBA QC3.0 Max18W*2-4; DC5521 13V3A*2;Carport 13V10A;Anderson: 1000W13V10A; 2000W/2500W13V15A		
Working Temperature	-10~45°C/14~113°F		
Charging Temperature	0~40°C/32~104°F		
Storage Temperature	-10~45°C/14~113°F		
Storage Humidity	<70%RH		
Working Altitude	≤2000m		
Life Cycles	≥4000 times		
Charging Time	0-100% in 1.7 Hours	0-100% in 2 Hours	0-100% in 2.5 Hours
EPS Switch Time	≤30ms		
Float Charging Mode	✓	✓	✓
Smart AC Output Mode	✓	✓	✓
Grid Auto Match Tech	✓	✓	✓

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PCS (Single Phase Hybrid Inverter)

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ESS-SH5-A



Key Features:

- **Supports automatic battery switching**
- **Support diesel generator input source**
- **Compatible with lead-acid and lithium-ion batteries**
- **Parallel available, intelligent BMS management**
- **Input power source priority can be set by users**
- **Battery reverse connection protection, anti-power control function**

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Specifications

Model		ESS-SH5-A
Input(PV)		
Max. power(kW)		7
Max. DC voltage(V)		550
MPPT voltage range(V)		125~500
Max. input current of single MPPT(A)		14
MPPT tracker/strings		2/1
AC output		
Rated output power(kVA)		5
Max. output current(A)		21.7
Grid voltage/range(V)		230/176~270
Frequency(Hz)		50/60
Power factor		0.8lagging~0.8leading
THDI		<3%
AC output topology		L+N+PE
Battery		
Battery voltage range(V)		40~58
Max. charging voltage(V)		58
Max. charge/discharge current(A)		95/104.2
Battery type		Lithium/Lead-acid
Communication interface		CAN/RS485
EPS output		
Rated power(kVA)		5
Rated output voltage(V)		230
Rated output current(A)		21.7
Rated frequency(Hz)		50/60
Automatic switching time(ms)		<20
THDu		<2%
Overload capacity		110%, 30s/120%, 10s/150%, 0.02s
General data		
Battery charge/discharge efficiency		95.0%
DC Max. efficiency		97.6%
MPPT efficiency		99.9%
Ingress protection		IP65
Noise emission(dB)		<35
Operation temperature		-25~60°C
Cooling		Natural
Relative humidity		0~95% (non-condensing)
Altitude		2,000m (>2000 derating)
Dimensions W*D*H(mm)		550*200*515
Weight(kg)		25
Isolation transformer		No
Self-consumption(W)		<3

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PCS (Three Phase Hybrid Inverter)



ESS-TH8-A/ESS-TH10-A/ESS-TH12-A



Key Features:

- **Compatible with lead-acid and lithium-ion batteries**
- **Support diesel generator input source**
- **IP65 protection, low noise < 35dB**
- **Battery reverse connection protection, anti-power control function**
- **Input power source priority can be set by users**
- **Support full power discharge, automatic management of battery charge and discharge**

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Specifications

Model	ESS-TH8-A	ESS-TH10-A	ESS-TH12-A
Input(PV)			
Max. power(kW)	10.4	13	15.6
Max. DC voltage(V)		1,000	
MPPT voltage range(V)		180~850	
Max. input current of single MPPT(A)		12.5	
MPPT tracker/strings		2/1	
AC output			
Rated output power(kVA)	8.8	11	13.2
Max. output current(A)	12.7	15.9	19.1
Grid voltage/range(V)		400/360~440	
Frequency(Hz)		50/60	
Power factor		0.8lagging~0.8leading	
THDI		<3%	
AC output topology		3W+N+PE	
Battery			
Battery voltage range(V)		125~600	
Max. charging voltage(V)		600	
Full battery voltage(V)	210	270	250
Max. charge/discharge current(A)	40	40	50
Battery type		Lithium/Lead-acid	
Communication interface		CAN/RS485	
EPS output			
Rated power(kVA)	8.8	11	13.2
Rated output voltage(V)		400	
Rated output current(A)	12.7	15.9	19.1
Rated frequency(Hz)		50/60	
Automatic switching time(ms)		<20	
THDu		<2%	
Overload capacity		110%, 30s/120%, 10s/150%, 0.02s	
General data			
Battery charge/discharge efficiency	96.6%	96.7%	96.8%
DC Max. efficiency	97.9%	98.2%	98.2%
MPPT efficiency	99.5%	99.5%	99.5%
Ingress protection		IP65	
Noise emission(dB)		<35	
Operation temperature		-25~60°C	
Cooling		Natural	
Relative humidity		0~95% (non-condensing)	
Altitude		2,000m (>2000 derating)	
Dimensions W*D*H(mm)		550*200*600	
Weight(kg)		29	
Isolation transformer		No	
Self-consumption(W)		<3	

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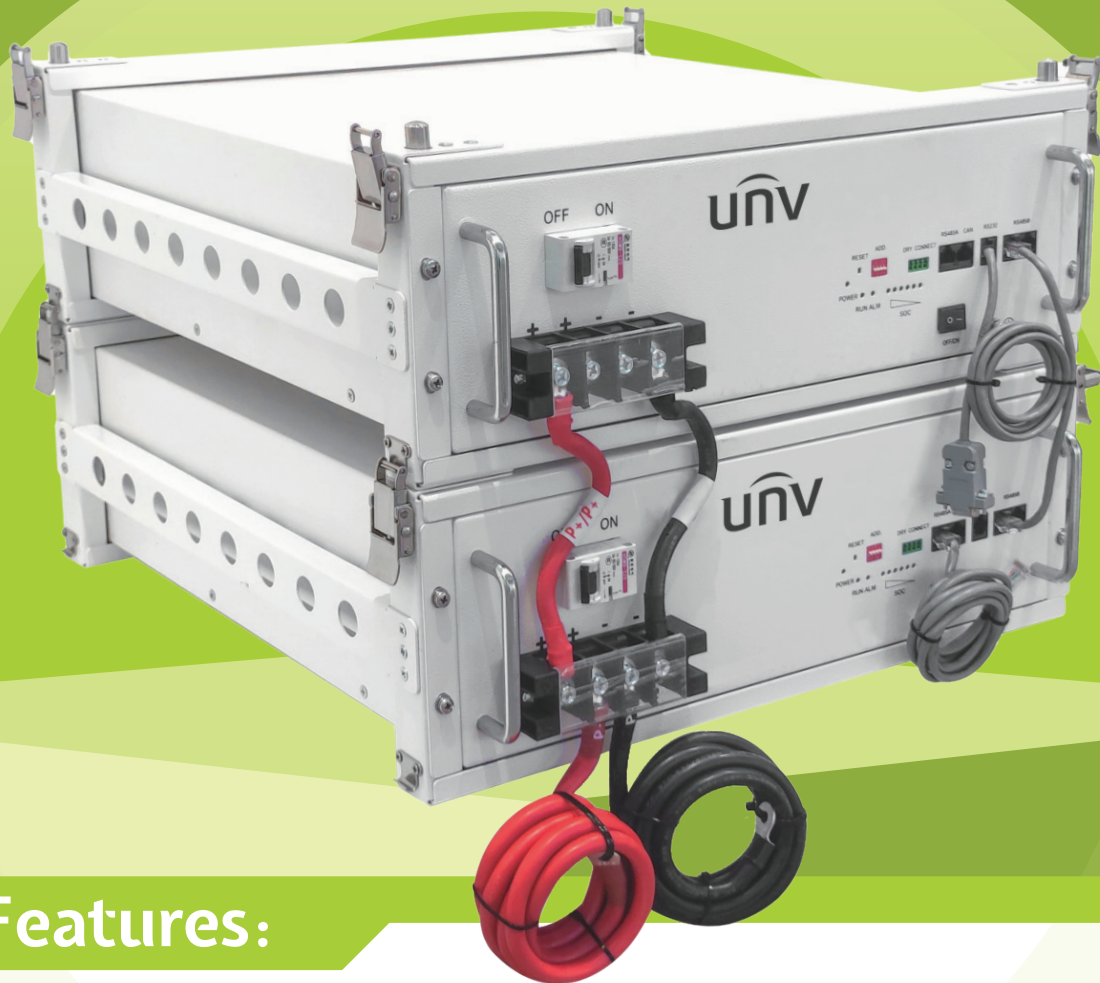
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Battery (LV)

ESS-MB5-A



Key Features:

- **Reliable**
Lithium iron phosphate, designed to comply with EC, UL standards.
- **Wide Compatibility**
Compatible with multiple brands of mainstream inverter use.
- **Convenient Installation**
The installation can be extended through parallel connection
- **Long-lasting**
15 years life design
Long cycle life and superior performance.
- **Scalability**
20.48 KWh can be extended

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Specifications

Model	ESS-MB5-A
Normal Capacity	100Ah@0.2C, 25°C
Normal Voltage	51.2V
Normal Energy	5.12Kwh @ 0.2C, 25°C
Charge Voltage	57.6V
Standard Charge Current	30A @25°C
Max Continuous Current	100A @25°C
Standard Discharge Current	30A @25°C
Max Continuous Discharge Current	100A @25°C
Discharge Cutoff Voltage	40V
Dimensions	506*514*169mm
Weight	Approx. 48Kg
Operating temperature	Charge: 0~60°C Discharge: -20~60°C
Relative Humidity	0%~95% RH
Storage Temperature	-10~55°C
Operation temperature	0-45°C
IP Grade	IP 30
Cell Materials	LFP
Cell Rated Voltage	2.5-3.65 V
Cell Rated Energy	320Wh

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