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EN--V1.0



BLUETTI Home Energy Solutions

Energy Freedom for Your Home, 24/7.

Who We Are

Founded in 2013, BLUETTI has been a pioneer in clean energy solutions. With over a decade of innovation and commitment to sustainability, BLUETTI has curated a diverse range of reliable products tailored for adventures, emergency backup power, and off-grid living, shaping a smarter, greener future we share.



1st

Manufacturer of both lithium portable power station and home energy storage system

1st

TÜV S-Mark certified energy storage system in Asia

1st

All-round IP65 water-resistant power station

1st

All-Aluminum residential energy storage system

Top
Funded

Portable power station on Indiegogo

Our Commitments

Technology Pioneer in Clean Energy



MISSION

Provide clean and independent energy for all people



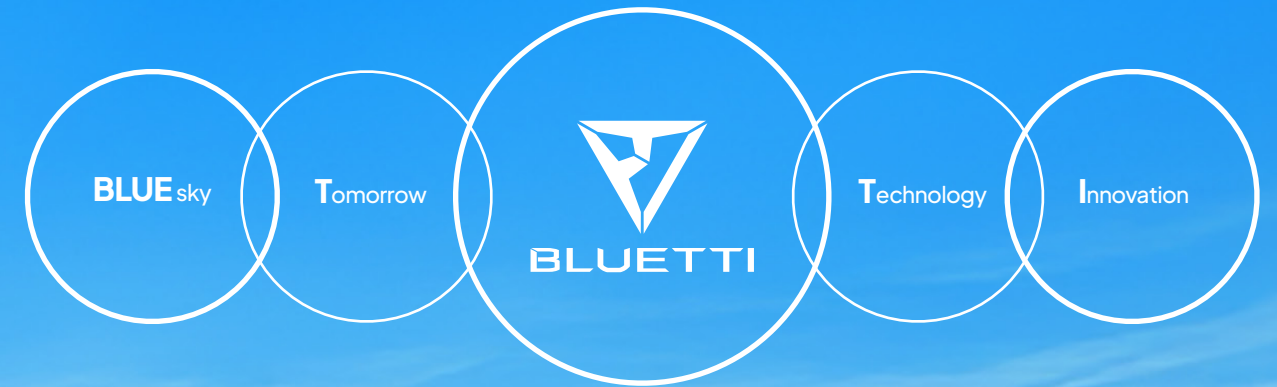
VISION

Provide energy storage solutions for every household



VALUE

Create a better world with love and innovation



BLUETTI Home Energy Solutions



Off-Grid Inverter



HV6K
6.2 kW | Single Phase



HV10K
10 kW | Single Phase



HB500
5.12 kWh

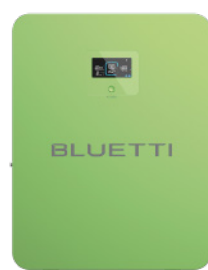
All-in-One Off-Grid ESS



Home Star 2
1.5 kW | 2 kWh | Single Phase



Home Star 3
2.0 kW | 3.01 kWh | Single Phase



Home Star 5
3.68 kW | 5.02 kWh | Single Phase

All-in-One On-Grid/Off-Grid Home ESS



EnergyPro 760
7.6 kW | 4.96–39.68 kWh
Single Phase



EnergyPro 2000
20 kW | 14.7–51.6 kWh
Three Phase



High-Efficiency Solar Generation

Support 1.5× PV oversizing to maximize solar energy.



Approved Safety & Durability

CE-certified inverters and UL-certified LiFePO₄ batteries. Built to last 6,000+ cycles.



Full-Scenario Backup

Scalable 1.5–60 kW pure sine wave power for homes, businesses, and off-grid use.



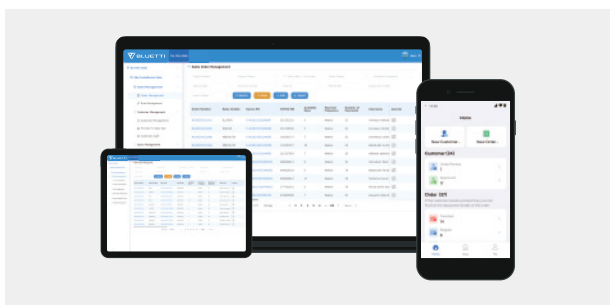
Desert-Ready Performance

Removable dust shield and advanced thermal control ensure reliable operation up to 60°C.



Fast & Easy Installation

All-in-one design for fast, simple setup with minimal labor.



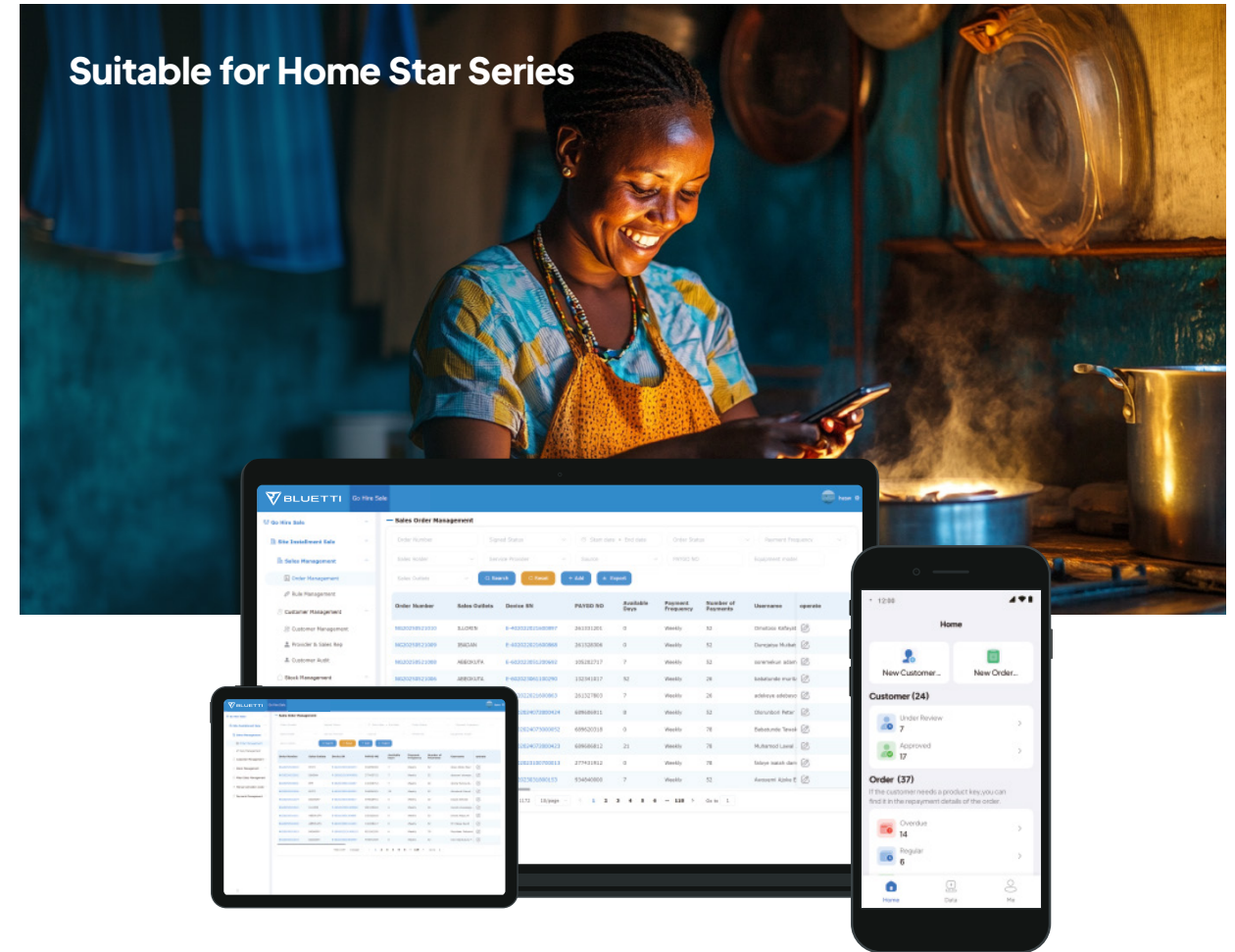
Flexible Payments

Affordable clean energy with full payment or Pay-As-You-Go options.

BLUETTI GO

Smart Platform, Smarter Distribution

BLUETTI GO is our exclusive digital management system designed to simplify your operations and empower your growth. Distributors get free access to this powerful tool for secure payments, inventory control, and self-managed distribution.



Self-Managed for Distributors

Manage your distribution network with full control.

Secure & Reliable

Enjoy bank-grade security and uninterrupted operations.

Inventory Management

Easily track, manage, and transfer your stock.

Sales Management

Monitor customer orders, payments, and performance in real time.

Pay-As-You-Go

Make installment payment plans directly and create your sales packages.

HV6K & HV10K Off-Grid Inverter



HV6K

6.2 kW | Single Phase

HV10K

10 kW | Single Phase

Pure Sine Wave Power
Handle sensitive, high-demand devices with ease.

Strong Surge Power
200% surge capacity to run all home appliances.

Dust-Resistant Design
Removable, washable dust filter for easy maintenance.

High Solar Compatibility
1.4× PV input ratio with a wide 90–450 V input range.

Enhanced Safety
CE-certified and 6 layers of protection for peace of mind.

Smart & Flexible System
Control and monitor via app or LCD screen, compatible with lithium and lead-acid batteries.

Specifications

PV Input	HV6K	HV10K
Max. PV Array Power	6,500 W	14,000W
Nominal PV Voltage	320 Vdc	
Nominal MPPT Voltage Range	90 – 450 Vdc	
Max. PV Input Voltage	500 Vdc	
Max. Input Current	18 A	22 A*2
Battery Input		
Nominal Battery Voltage	51.2 V	
Max. Charging/Discharging Current	118 A	230 A
Charging Strategy for Li-ion Battery	Self-adaption to BMS	
AC Input		
Nominal Input Voltage	230 Vac±5%	
Frequency	50 Hz/60 Hz	
Input Current	27 A	43.5 A
Surge Current	54 A, 5s	87 A, 5s
AC output		
Rated Output Power	6,200 W	10,000 W
Surge Power	12,400 VA, 5s	20,000 VA, 5s
Output Voltage Regulation	230 Vac±5%	
Output Frequency	50 Hz / 60 Hz	
General		
Waveform	Pure sine wave	
Phase	Single-phase	
Grid Connection	Off-grid	
Switchover Time to Backup Power	≤10 ms	
Protection Rating	IP21	
Max. Efficiency (DC-AC)	>95%	
Operating Temperature	10°C to 50°C	
Humidity	5% to 95%	
Dimensions (W × D × H)	300 × 115 × 435 mm	322 × 141 × 497 mm
Net Weight	10.4 kg	16.3 kg
Connectivity	RS232/RS485	
Compliance & Certifications	IEC 61683, EN 55032, EN 55035, IEC 62109	
Warranty	2 Years	

HB500 Battery Pack

5.12 kWh | 6,000+ Cycles



UL-Certified LiFePO4 Cells

Safe, reliable performance with UL 1973 certification.



6,000+ Cycles Lifespan

Durable performance for long-term energy projects.



Scalable up to 327.68 kWh

Modular design supports expansion up to 64 units.



Broad Inverter Compatibility

Seamless integration with top inverter brands.



Flexible Mounting

Wall or floor installation to fit any space.

Specifications

No. of HB500 Units	HV6K	HV10K
1	6.2 kW 5.12 kWh	/
2	6.2 kW 10.24 kWh	10 kW 10.24 kWh
3	6.2 kW 15.36 kWh	10 kW 15.36 kWh
4		10 kW 20.48 kWh
Up to 64 Units	6.2 kW 327.68 kWh	10 kW 327.68 kWh

HB500	
Battery Type	LiFePO4
Rated Voltage	51.2 V
Rated Capacity	100 Ah
Rated Energy	5.12 kWh
Operating Voltage	44.8–57.6 V
Rated Charge Current	50 A
Rated Discharge Current	50 A
Max. Charge Current	80 A
Max. Discharge Current	100 A
Peak Discharge Current	150 A (2 min)
Cycle Life	6,000+ cycles
Depth of Discharge (DoD)	≥95%
Charging Temperature	0°C to 55°C
Discharging Temperature	-20°C to 55°C
Protection Rating	IP20
Dimensions (L × W × D)	402.6 × 158.7 × 708.5 mm
Weight	51 kg
Max. Parallel Units	Up to 64 units, total 327.68 kWh
App Connectivity	Bluetooth
Communication Interface	CAN/RS485
Data Storage	Optional hard drive, stores up to 5 years of operational records
Compliance & Certifications	UN38.3, CE-EMC, UL (battery cells)
Warranty	3 years

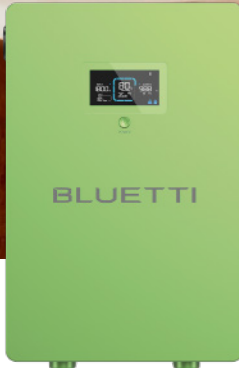
Home Star Series Off-Grid Home ESS

 PAYGO Enabled



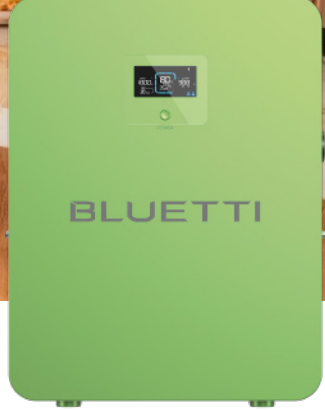
Home Star 2

1.5 kW | 2 kWh | Single Phase



Home Star 3

2.0 kW | 3.01 kWh | Single Phase



Home Star 5

3.68 kW | 5.02 kWh | Single Phase



Fast Solar Charging

Recharge in just 1.5 hours
with high-voltage solar input.



Voltage Protection

Safeguard devices
from 140–280 V grid fluctuations.



Dust-Resistant Design

Removable, washable filter for peak
performance in dusty conditions.



High-Temperature Resilience

Operate stably even in temperatures
from 40°C to 60°C.



All-in-One Simplicity

An integrated system for quick installation
and immediate use.



Flexible Business Models

Support pay-as-you-go to meet diverse
market needs and boost sales.

Specifications

	Home Star 2	Home Star 3	Home Star 5
Capacity	2,009.6 Wh	3,014.4 Wh	5,024 Wh
AC Output			
Rated Power	1,500 W	2,000 W	3,680 W
Surge Power	2,250 W (6s)	3,000 W (6s)	5,520 W (6s)
Rated Voltage	230 VAC ± 10%; 50 Hz/60 Hz		
Voltage Total Harmonic Distortion (THD)	3%		
No. of AC Outlets	2		
AC Input			
Power	1,500 W	1,500 W	2,300 W
Voltage	140–290 V	140–290 V	140–290 V
Connection Type	IEC C14 Inlet	Screw Terminal	Screw Terminal
PV Input			
Max. Power	1,500 W	2,000 W	4,300 W
Current	16 A		
Voltage	30–120 V	60–300 V	80–450 V
MPPT Channel	1		
General			
Noise Level	≤ 50 dB		
Discharging Temperature	–10°C to 60°C		
Charging Temperature	0°C to 60°C		
Communication	USB/Bluetooth/optional 4G dongle		
Display	Segment code LCD screen		
PAYGO Support	Yes		
Dimensions ((W × D × H)	270 × 200 × 327 mm	315 ×186 ×475 mm	450 ×190 ×580 mm
Weight	25 kg	29.6 kg	48 kg
Installation	Wall-mounting	Floor-standing / wall-mounting	Floor-standing / wall-mounting
Protection			
Battery Overvoltage / Undervoltage	✓		
Overcurrent	✓		
PV Overvoltage / Overcurrent	✓		
Charging Overvoltage / Undervoltage	✓		
Overheating	✓		
Short Circuit	✓		
Overloading	✓		

EP760 All-in-One ESS

7.6 kW | 4.96–39.68 kWh | Single Phase | On-Grid/Off-Grid



All-in-one system with built-in hybrid inverter and battery



Forced-air system extends lifespan & boosts efficiency



10-year warranty with guaranteed output of 18.25 MWh/battery



Supports both AC and DC coupling



Built-in ATS for seamless backup, no gateway needed



Housed in a tough, durable aluminum alloy shell

Specifications

Configuration	EP760 + 1×B500	EP760 + 2×B500	EP760 + 3×B500	EP760 + 4×B500	EP760 + 5×B500	EP760 + 6×B500	EP760 + 7×B500	EP760 + 8×B500
System Capacity	4.96 kWh	9.9 kWh	14.8 kWh	19.8 kWh	24.8 kWh	29.76 kWh	34.72 kWh	39.68 kWh
Output Power	7.6 kW							
Max. Recommended PV Array Power	15.2 kWp							
Max. Input Apparent Power	11.5 kVA							
Max. Input Current	50 A							

EP760 Hybrid Inverter

General

Operating Temperature	-20°C to 50°C
Noise Level	≤50 dB(A)
Dimensions (L × W × D)	636 × 325 × 370 mm
Net Weight	46 kg
Connectivity	WiFi / Bluetooth
Protection Grade	IP65
Input Frequency	50 Hz
Switchover Time to Backup Power	<10 ms
Phase	L / N / PE

AC Output (On-Grid)

Rated Output Power	7.6 kW
Rated Voltage	230 V
Frequency	50 Hz

Compliance & Certification

Grid Connections	EN 50549-1, UTE C 15-712-1, DIN V VDE V 0126-1-1, Enedis-PRO-RES_10E version 5, VFR, G99/NI Issue 1, G99 Issue 1 Amendment 9, VDE-AR-N 4105, DIN VDE V 0124-100 (VDE V 0124-100), RD647, UNE 217002, RD 1699, RD 413 BOE-A, CEI 0-21-03 + V1, AS/NZS 4777, C10/T1, G100 Issue 2 Amendment 2		
Safety	IEC 62109-1, IEC 62109-2, EN 62109-1, EN 62109-2	Emissions	EN/IEC 61000-6-3, EN/IEC 61000-6-1
		Certificates	CE

B500 Battery Pack

General

Battery Chemistry	LiFePO ₄
Capacity	4,960 Wh
Net Weight	58 kg
Protection Grade	IP65
Dimensions (L × W × D)	636 × 325 × 338 mm

PV Input

Max. Recommended PV Array Power	15.2 kWp
MPPT Voltage Range / Rated Voltage	150 V – 500 V / 360 V
Max. Input Current per MPPT	12.5 A
Independent MPPT Inputs	3 (3 kW each)
Recommended PV Array VoC	240 V – 500 V
Max. Input Power	9 kW

AC Output (Backup)

Rated Output Power	7.6 kW
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Compliance & Certification

Safety	JIS C8715-2, EN IEC 62619, UL 1973, UL 9540A
Emissions	EN/IEC 61000-6-3, EN/IEC 61000-6-1
Shipping	UN 38.3
RoHS	2011/65/EU
Certificates	CE, CB, CETLUS, FCC, IC, RCM

EP2000 Whole-House ESS

20 kW | 14.7 kWh–51.6 kWh
Three-Phase | On-Grid / Off-Grid



All-in-One System
Integrated solution
for easier management.



20 kW Three-Phase Output
Delivers 6.7 kW per phase
for residential or small business.



Six-Layer Protection
Comprehensive safety
from cell to system.



30 kWp Solar Input
Maximized energy yield
with high solar input.



14.7 kWh–51.6 kWh Capacity
Flexible sizing to meet
any energy demand.



Up to 98% Efficiency
High conversion efficiency
for greater energy savings.

Specifications

Configuration	1 × EP2000 Inverter (with 2–7 × B700 Batteries)	2 × EP2000 Inverters (with 4–14 × B700 Batteries)	3 × EP2000 Inverters (with 6–21 × B700 Batteries)
Capacity	14.7 kWh–51.6 kWh	29.4 kWh–103.2 kWh	44.1 kWh–154.8 kWh
Output Power (On-Grid / Off-Grid)	20 kW	40 kW	60 kW
Max. Solar Input	30 kW	60 kW	90 kW

EP2000 Hybrid Inverter

General

Operating Temperature	-20°C to 60°C
Noise Level	50 dB(A)
Net Weight	60 kg
Cooling Method	Forced air cooling
Connectivity	USB/Wi-Fi/Bluetooth
Protection Rating	IP65
Input Apparent Power (Bypass + Charging)	40 kVA Max.

PV Input

Recommended Max. PV Array Power	40 kWp
MPPT Voltage Range/Rated Voltage	160 V–850 V/500 V
MPPT Channel/Strings per MPPT	2 / 2
Max. Input Current per String	15 A
Short Circuit Current per String	20 A
Initial Input Voltage	180 V
Max. Input Voltage	1,000 V
Max. Input Power	30 kW

Compliance

Grid Connections	Germany: VDE-AR-N 4105:2018, DIN VDE V0124–100:2020 Austria: TOR Erzeuger Type A version 1.2, 18 April 2022 Australia: AS/NZS 4777.2:2020 Amd 1:2021		
Safety	IEC 62109–1, IEC 62109–2, EN 62109–1, EN 62109–2	RoHS	2011/65/EU and (EU) 2015/863
		Emissions	EN/IEC 61000–6–3, EN/IEC 61000–6–1

Warranty	10 years
Dimensions (L × W × H)	670 × 280 × 460 mm
Input Frequency	50 Hz
Switchover Time to Backup Power	< 10 ms
Phase	3L/N/PE

AC Output (Backup)

Rated Power (without PV Input)	10.5 kW with 2 B700 15.5 kW with 3 B700 20 kW with 4–7 B700
Rated Power (with PV Input)	20 kW
Rated Voltage	230/400 Vac
Frequency	50 Hz

HV800 Battery Controller

Expandability	2–7 × B700
Voltage Range	130 V–800 V
Max. Current	70 A
Net Weight	19 kg

Dimensions (L × W × H)	670 × 280 × 249 mm
Noise	< 25 dB(A)
Warranty	10 years

B700 Battery

Battery Chemistry	LiFePO ₄
Capacity	7,372.8 Wh
Protection Rating	IP65
Net Weight	72 kg
Dimensions (L × W × H)	670 × 280 × 386 mm

HV800 & B700 Compliance

Safety	IEC 62619, EN 62619, VDE-AR-E 2510–50, UN38.3
Emissions	EN/IEC 61000–6–3, EN/IEC 61000–6–1
RoHS	2011/65/EU and (EU) 2015/863

App Control

Smart Energy, Just a Tap Away



Energy Management

Monitor and adjust your system anytime, anywhere.



Real-Time Insights

Track generation, storage, and usage — live and precise.



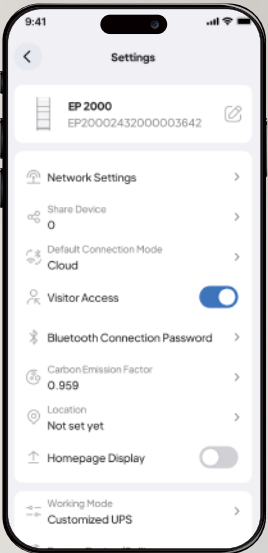
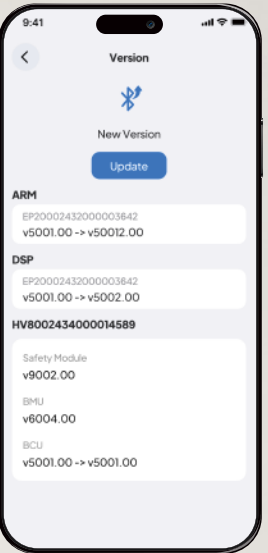
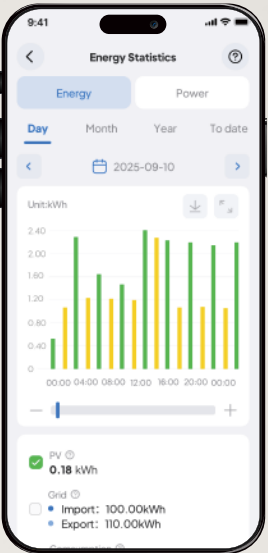
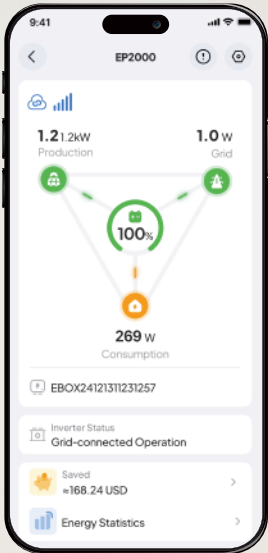
One-Tap Mode Control

Switch instantly between Self-Consumption, Time-of-Use, Backup, or Custom modes.



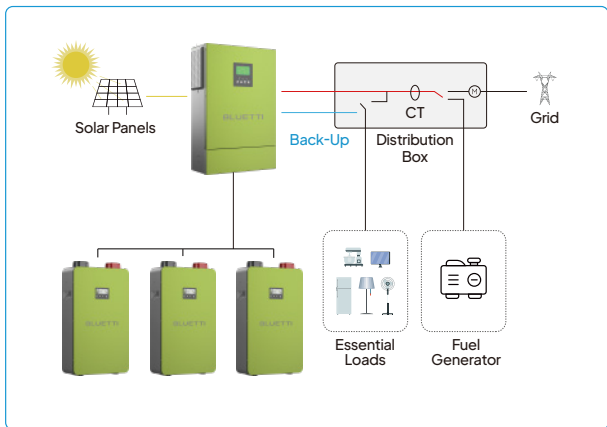
OTA Updates

Enjoy the latest features in a mere 5 minutes.

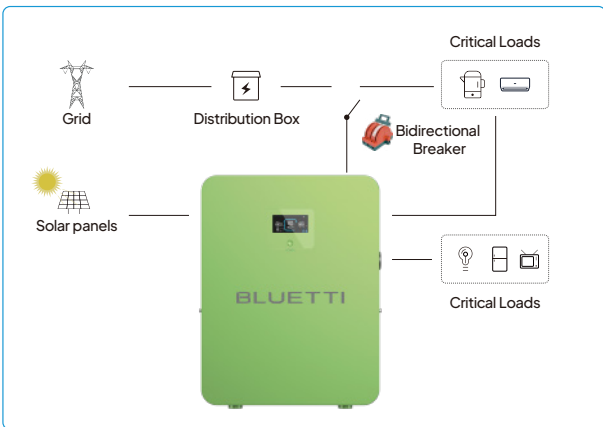


How It Works

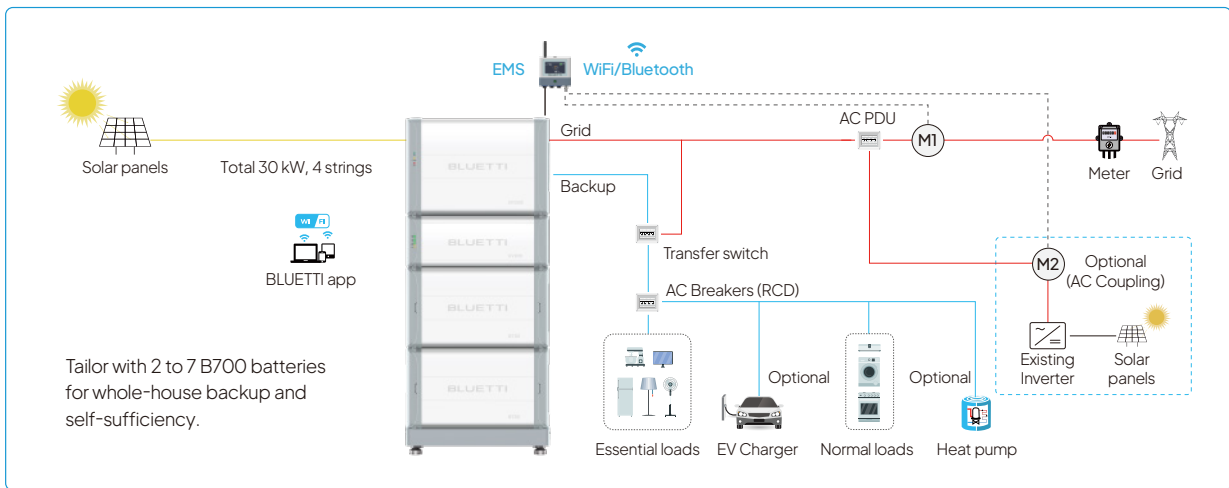
HV Series Off-Grid Inverter & HB500 Battery Pack (DC Coupling)



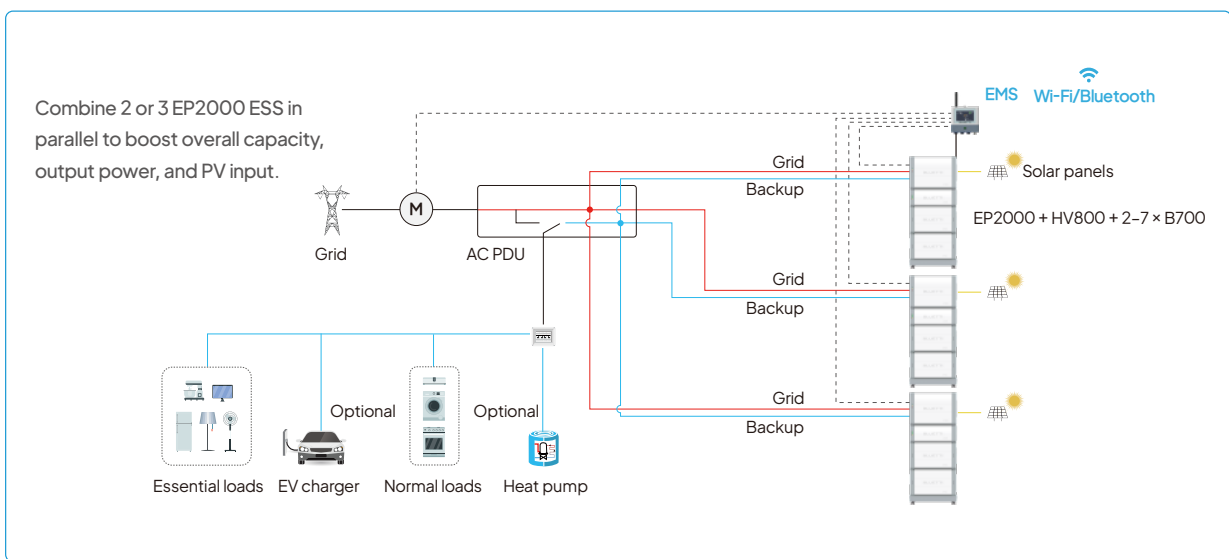
Home Star All-in-One Off-Grid Series (DC Coupling)



All-in-One On-Grid / Off-Grid Series (DC Coupling & AC Coupling)



Parallel Connection for Commercial Use



Global Service & Local Support

26+ Subsidiaries Worldwide



Local Sales Team



Local Technical Support



Local Installation Service



Local Warehouses



Local Logistics

In-House Manufacturing & Advanced Facilities

130,000

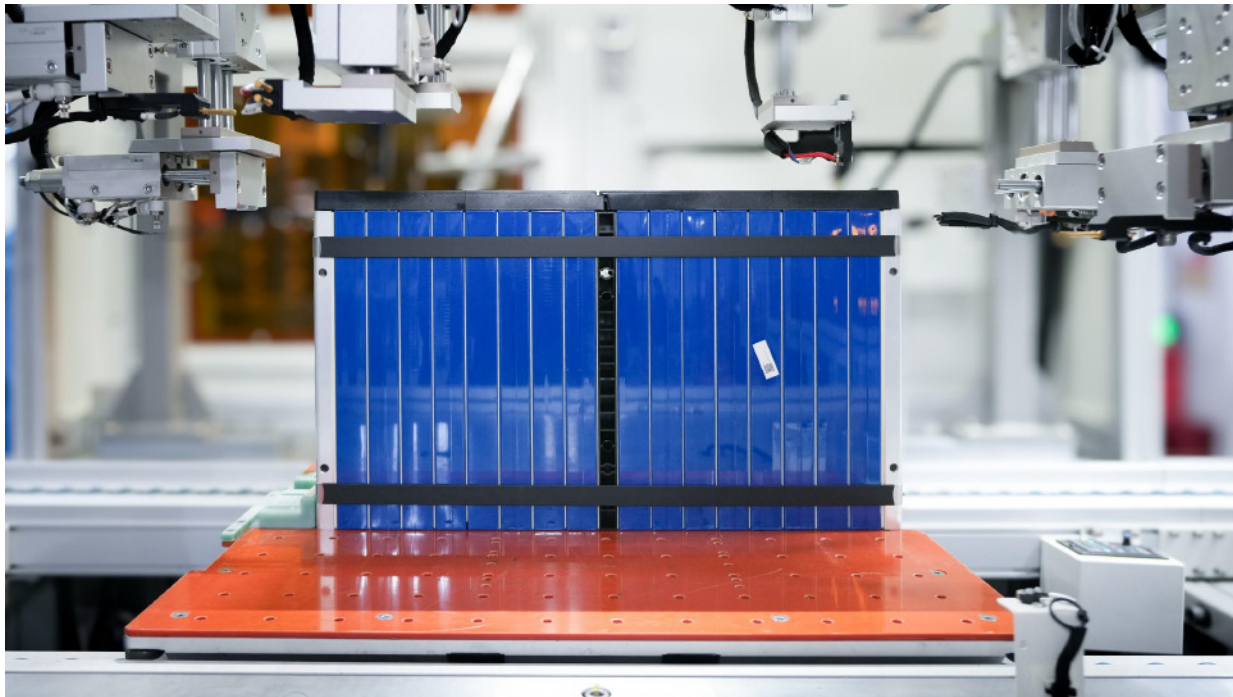
Manufacturing Area

1,600+

Skilled Employees

22+

Global Service Centers



Production Base 1 -- Huizhou, China



Production Base 2 -- Huizhou, China



Production Base 3 -- Chuzhou, China



Production Base 4 -- Indonesia

User Cases

