



TECHNOLOGY  
PIONEER  
IN CLEAN ENERGY



# EP2000 & B700 Whole-House ESS

Secure Home Power, Save on Bills

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

## EP2000 Whole-House ESS

Accelerate home energy transition with ease.

EP2000 and B700 energy storage system is BLUETTI's latest powerhouse integrating a hybrid solar inverter with a high-capacity energy storage battery. This all-in-one solution is tailor-made for villas, large standalone houses, small businesses, farms, and other high-power-demand situations.

With an outstanding 20 kW AC output and a 30 kW PV input, the EP2000 ESS maximizes solar energy utilization, effortlessly powering whole-house appliances, including EV and heat pumps.

Enjoy unrivaled energy independence and significant savings on electricity bills with minimal upfront investment.

EP2000  
Hybrid Inverter

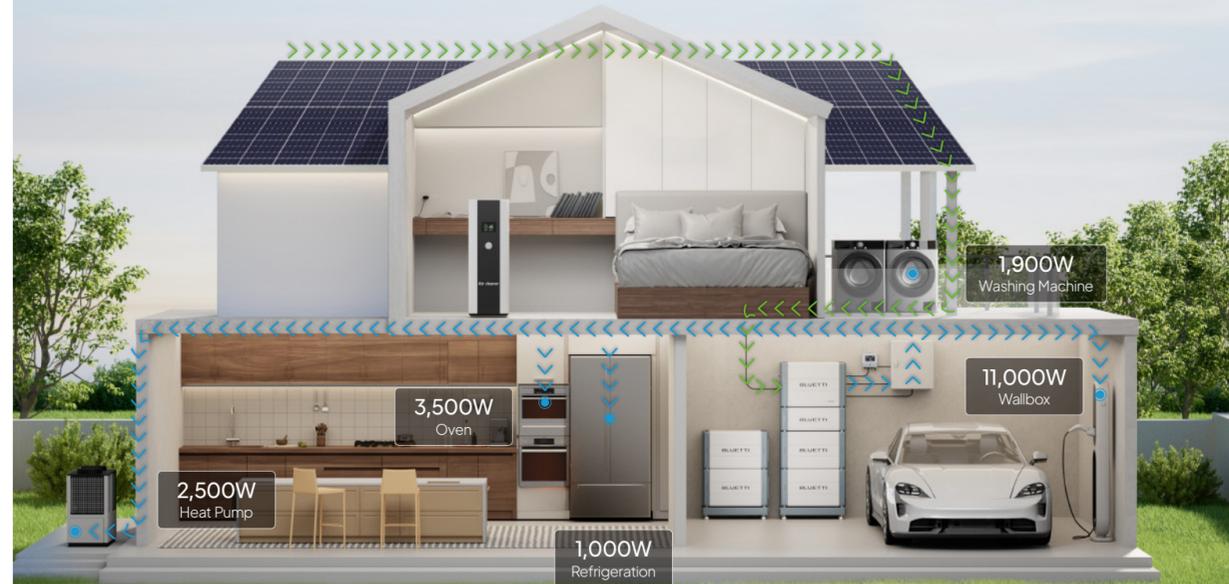
HV800  
Battery Controller

B700  
Expansion Battery

B700  
Expansion Battery



## One Powers All



## Why Choose BLUETTI EP2000 ESS

### Higher ROI



- Achieve 100% energy self-sufficiency with up to 20 kW power output and 30 kW PV input. Invest one BLUETTI ESS, and get the same returns that require two units from other brands.
- Up to 97.6% Efficiency: The high voltage system ensures an impressive inverter efficiency, maximizing energy conversion and reducing waste.

### More Powerful & Flexible Energy Solution



- Power whole house with 10.5 kW / 15.5 kW / 20 kW optional output power and 14.7 kWh-51.6 kWh expandable capacity.
- Parallel connection with up to 3 EP2000 units for max. 60 kW output and 154.8 kWh capacity. Customize based on residential or commercial needs without paying for unnecessary capacity.

### Time-Saving & Hassle-Free



- All-in-One: Combines a hybrid solar inverter and energy storage system for seamless operation and stability.
- Modular: Easy to expand, transport, and install with a plug-and-play feature, enhancing installation efficiency by 50% compared to the previous generation.

### Universal Compatibility



- Whether you have an existing solar rooftop or plan to install a new one, the EP2000 ESS offers excellent compatibility to integrate with any setup.

### More Features



- 10-Year Warranty
- Safest LFP Batteries
- Elegant Appearance
- Smart App Control
- Seamless Backup
- IP65 Protection Rating Switch in 10ms

# Power for Every Scenario

EP2000 Inverter + HV800 Battery Controller	B700	Rated Output Power/kW (Without PV input)	Rated Output Power/kW (With PV input)	Capacity / kWh
1	2	10.5	20	14.7
	3	15.5	20	22.1
	4	20	20	29.49
	5			36.86
	6			44.2
7	51.6			
2	4-14	40 Max.	40 Max.	103.2 Max.
3	6-21	60 Max.	60 Max.	154.8 Max.

## 4 APP Working Modes Power Intelligence at Your Fingertips



**Self-Consumption**  
Perfect for sunny areas with high electricity costs.



**Backup**  
Providing uninterrupted power supply for areas with unreliable grids.



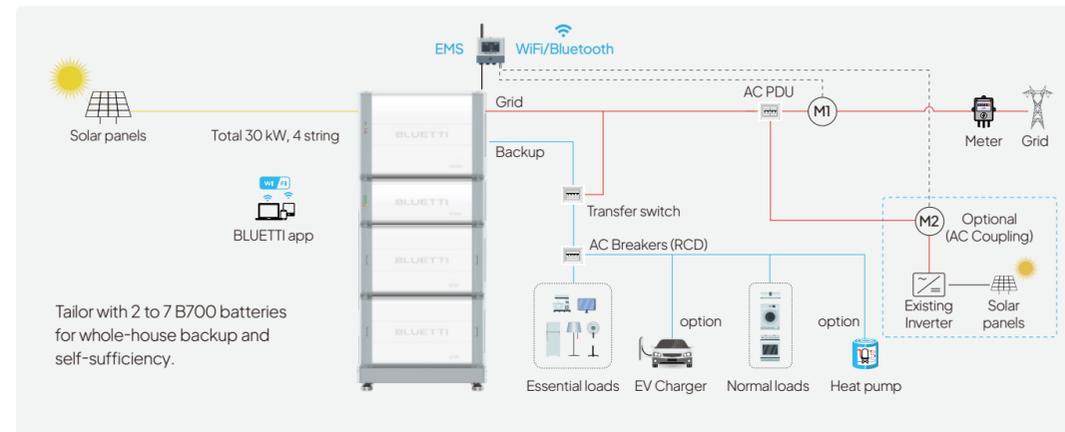
**Time of Use**  
Great for stable grids with big price differences between peak and off-peak times.



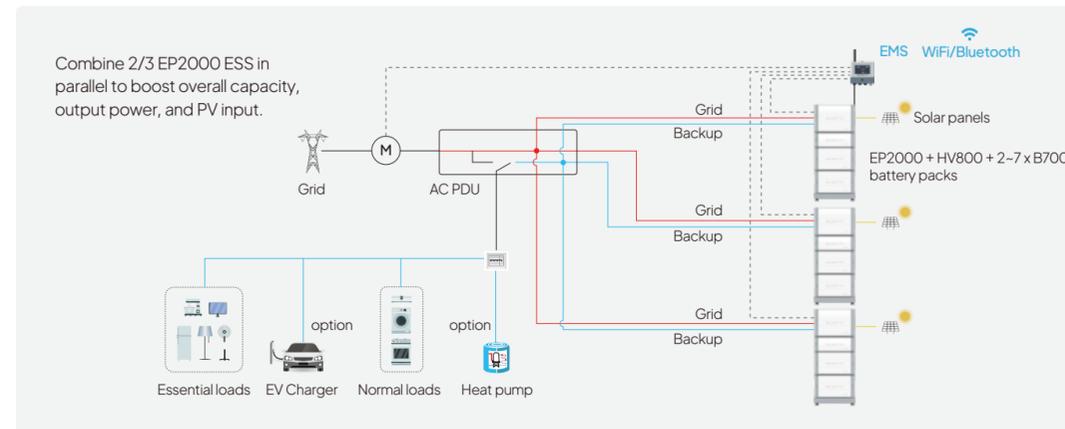
**Custom Mode**  
Get tailored solutions with the BLUETTI app.

## How it Works

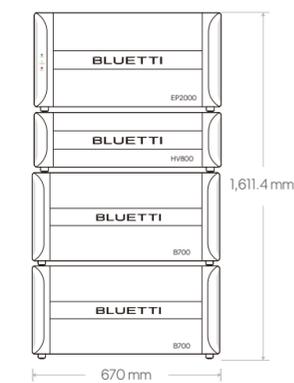
### One EP2000 ESS for Whole-House Usage



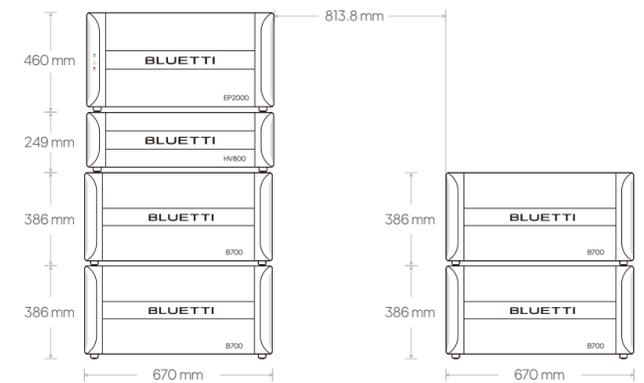
### Parallel Connection for Small Businesses



1xEP2000 + HV800 + 2x B700



1xEP2000 + HV800 + 4x B700



### EP2000 Hybrid Inverter

General	
Operating Temperature	-20°C to 60°C
Noise	≤50dB
Net Weight	60 kg
Cooling	Forced Air Cooling
Connectivity	USB / Wi-Fi / Bluetooth
Protection Rating	IP65
Input Apparent Power (Bypass + Charging)	40 kVA Max.
PV INPUT	
Max. Input Power	30kW
Recommended Max. PV Array	36kWp
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
Single String Short Circuit Current	20 A
Initial input voltage	180V
Max. input voltage	1,000V

### Compliances

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

### HV800 Voltage Controller

General	
Expandability	2-7 B700 Batteries
Voltage Range	130 V-800 V
Max. Current	70 A Max.
Net Weight	19 kg
Compliances	
Safety	IEC 62619, EN 62619, VDE-AR-E 2510-50, UN38.3

Dimensions (L x W x H)	670 mm x 280 mm x 249 mm
Noise	<25dB
Warranty	10 Years
Emissions	EN/IEC 61000-6-3, EN/IEC 61000-6-1
RoHS	2011/65/EU and (EU) 2015/863

### B700 Battery

General	
Battery Chemistry	LiFePO4
Capacity	7,372.8Wh
Protection Grade	IP65
Net Weight	72kg
Dimensions	670 mm x 280 mm x 386 mm

Compliances	Same as HV800
-------------	---------------

\*\* Specifications subject to change without further notice.



Contact Us