

Reach Power Independence with Peace of Mind

EP900 is a residential energy storage solution designed to make your life more easier. It integrates with solar panels, allowing you to power your appliances and save money on your energy bills while enjoying constant and reliable power whenever you need it. Thanks to its modular design, including the EP900 hybrid inverter and the B500 batteries, it adapts to meet the specific needs of your household.



Slash Electricity Bills

Store free solar energy or low-price power for peak-hour use to significantly save on monthly energy costs in the long run.



Outage Protection

With just 10ms switch over time, rest assured that your essential appliances stay powered even when the grid goes down.



Energy Self-consumption

Transition into a power producer to reduce your reliance on the fluctuant grid, reclaiming control over your energy management.



Modular Design

Offer flexibility and scalability for easy expansion and customization to match your present and future needs.



Safety and Compliance

EP900 is rated NEMA 4X, coupled with a 10-year warranty and product liability insurance, ensures utmost safety and peace of mind for your home.

TOP

Portable Power Station Brand

1st

Manufacturer of Outdoor & Home ESS

2M+

Trusted by 2,000,000+ Global Users



Contact Us



BLUETTI EP900

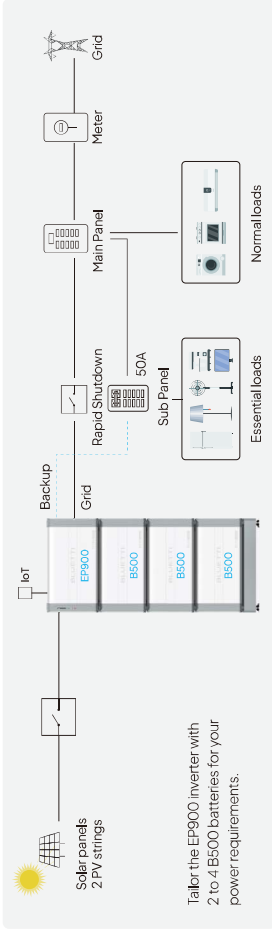
Residential Energy Storage System

On-grid

Off-grid

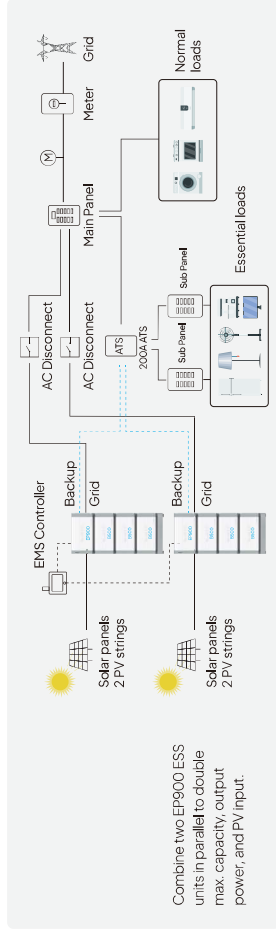
How it Works

Standard Home Backup



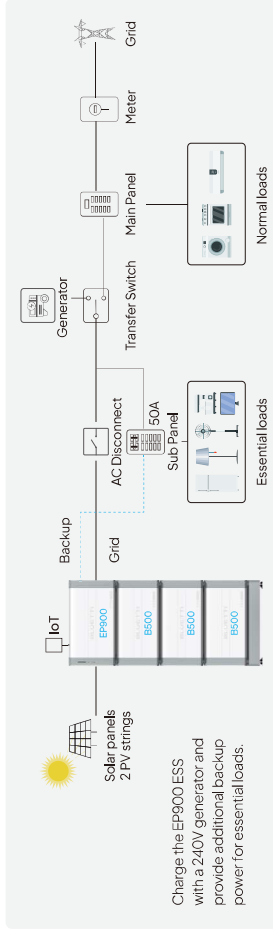
Tailor the EP900 inverter with 2 to 4 B500 batteries for your power requirements.

Parallel Connection with ATS



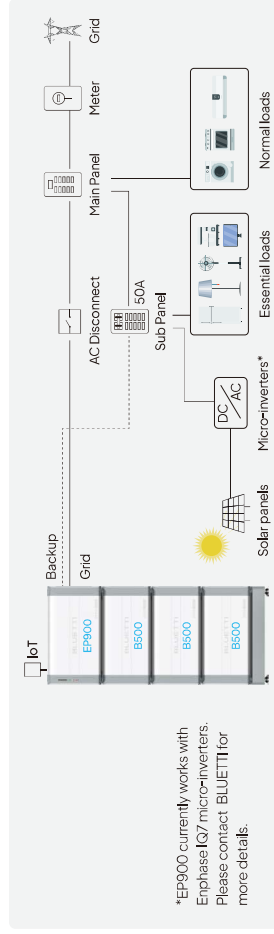
Combine two EP900 ESS units in parallel to double max. capacity, output power, and PV input.

Generator as Backup



Charge the EP900 ESS with a 240V generator and provide additional backup power for essential loads.

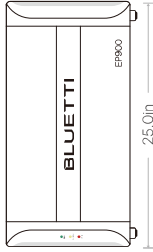
AC-coupled with Micro-inverters



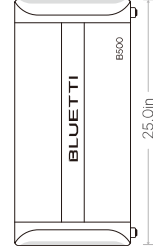
*EP900 currently works with Enphase IQ7 micro-inverters. Please contact BLUETTI for more details.

DATA SHEET

EP900



B500



Specifications

Configurations	1*EP900+2*B500	1*EP900+3*B500	1*EP900+4*B500	2*EP900+4*B500	2*EP900+6*B500	2*EP900+8*B500
Capacity	9.9kWh	14.8kWh	19.8kWh	19.8kWh	29.7kWh	39.6kWh
Output Power (BACKUP)	7,600W	9,000W	15,200W	18,000W	18,000W	18,000W
Max. Solar Input		9,000W				
Max. Input Apparent Power (Bypass + Charging)		13.9 kVA				27.8 kVA

EP900 Hybrid Inverter

General	
Operating Temperature	4°F to 104°F / -20°C to 40°C
Noise	≤50dB(A)
Net Weight	105 lbs / 48 kg
Cooling	Forced Air Cooling
Connectivity	USB / Wi-Fi / Bluetooth
Protection Rating	NEMA 4X / IP65
Warranty	10 Years
Dimensions	25.0in x 12.8in x 14.6in / 636mm x 325mm x 370mm
Input Frequency	60Hz
Switch Over Time to Backup Power	<10ms
Phase	L1 / L2 / N / G

PV INPUT

Max. Power	9,000W (3,000W + 6,000W)
MPPT Voltage Range / Rated Voltage	150V-500V / 360V
MPPT Channel	2
Single MPPT Input Current	12.5A / 25A
Single MPPT Short Circuit Current	15A / 30A

COMPLIANCES

Grid Connections	IEEE 1547, IEEE 1547.1, Hawaiian Electric IEEE 1547.1, UL 1741 SB
Safety	UL 1741, CSA C22.2#107.1, UL 9540
Emissions	FCC Part 15, Subpart B, ICES-003
Certificates	cETLus, FCC, IC

B500 Modular Battery

Battery Chemistry	LiFePO4
Capacity	4,960Wh
Net Weight	127.8 lbs / 58 kg
Protection Grade	NEMA 4X/IP65
Dimensions	25.0in x 12.8in x 13.3in / 636mm x 325mm x 338mm
Compliances	
Safety	EN IEC 62619, UL 1973, UL 9540A, UL 9540, IIS C87/15-2
Emissions	EN IEC 61000-6-3, EN IEC 61000-6-1
Shipping	UN 38.3
RoHS	2011/65/EU and (EU) 2015/863
Certificates	CE, CB, cETLus, FCC, IC, RCM

*Specifications are subject to change without further notice.

SPECIFICATIONS