

BLUETTI

B500K

Expansion Battery

Product Portfolio and
Reviews' Guide



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BLUETTI

Pioneering Energy Transition for a Greener Planet.

BLUE Sky

Tomorrow

Technology

Innovation

Founded in 2009, 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.



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

Technology Pioneer in Clean Energy

BLUETTI B500K
Expansion Battery

The larger-capacity extended battery features a consistent 'family' design, maintaining great expandability and strong performance. This makes it highly competitive and offers excellent value.

Best Value for Money	Future-Proof Compatibility	Massive Scalability up to 100kWh	Versatile Charging & Usage Ecosystem	Next-Gen Internal Structure	Secure Mounting & Easy Mobility
B500K shares the same user-friendly design and positioning as the B300K but offers a larger capacity at the most competitive price in its category.	The B500K is versatile, functioning as both a battery pack and a power station expansion. It is compatible with existing BLUETTI systems like the B300K, SolarX 4K, and Hub D1.	With a larger individual capacity, the B500K enables a plug-and-play power system that can be expanded up to a massive 100kWh. (with Apex 300)	Pair the B500K with various accessories (SolarX 4K, Hub D1, upcoming Charger 2) to unlock faster solar charging, high-power AC charging, and independent DC power supply.	Features a robust, innovative internal frame that minimizes fragile wiring. This enhances durability, reliability, and safety for long-term peace of mind.	Features pre-drilled holes for secure wall or shelf mounting in homes or RVs. Can also be securely attached to the Foldable Trolley 2 for easy transport.

Best Value for Money

(Priced only slightly higher than B300K)

B500K shares the same user-friendly design and positioning as the B300K but offers a larger capacity at the most competitive price in its category.

User Benefit:

Users get more capacity with less investment – the most affordable way to upgrade your power.





	B500K Expansion Battery	B300K Expansion Battery
Capacity	5,120Wh	2764.8Wh
Maximum Storage	Expand up to 100kWh (With 3*Apex 300+18*B500K)	Expand up to 57kWh (With 3*Apex 300+18*B300K)
Compatibility (Power Stations)	AC200MAX, AC200L, AC300, AC500, Apex 300	
Compatibility (Expansion Batteries)	B300, B300S, B300K, B230	
Compatibility (Accessories)	SolarX 4K - solar charge controller Hub D1 - DC Power hub Charger 2 - Alternator + PV Charger	
Weight	45 kg / 99.2 lbs	29.5kg / 65 lbs



SolarX 4K



B300K



Hub D1



Upcoming - Charger 2

Future-Proof Compatibility

Works with current & future BLUETTI products

The B500K is versatile, functioning as both a battery pack and a power station expansion. It is compatible with existing BLUETTI systems like the B300K, SolarX 4K, and Hub D1, and more!

User Benefit:

Your investment is protected. The B500K won't become obsolete; it will work with new BLUETTI products down the line.

Massive Scalability up to 100kWh

With a larger individual capacity, the B500K enables a plug-and-play power system that can be expanded up to a massive 100kWh.

User Benefit:

Effortlessly meet high energy demands. A plug-and-play system that offers a powerful solution for large-capacity needs.



Connect up to 6 * B500K batteries for each Apex 300



Versatile Charging & Usage Ecosystem

Works with current & future BLUETTI products

Pair the B500K with various BLUETTI Power Stations and accessories (SolarX 4K, upcoming Charger 2) to unlock faster solar charging, high-power AC charging.

User Benefit:

One battery, multiple uses. Adapts to your lifestyle with high-power charging and diverse output options for home, RV, and off-grid living.

Next-Gen Internal Structure

BLUETTI's Proprietary wireless components Design

Features a robust, innovative internal frame that minimizes fragile wiring. This enhances durability, reliability, and safety for long-term peace of mind.

User Benefit:

A safer, more reliable, and maintenance-free product. Enjoy a compact design with reduced long-term ownership costs.

Secure Mounting & Easy Mobility

Works with current & future BLUETTI products

Features pre-drilled holes for secure wall or shelf mounting in homes or RVs. Can also be securely attached to the Foldable Trolley 2 for easy transport.

User Benefit:

Install it firmly for stability or move it around safely and conveniently as needed.



Compare with other BLUETTI Expansion Batteries

对标竞品	BLUETTI B500K	BLUETTI B300K	BLUETTI B300	BLUETTI B300S	BLUETTI B230
Product images					
Capacity	5120Wh	2764.8Wh	3072Wh	3072Wh	2048Wh
Battery cells	lithium iron phosphate	lithium iron phosphate	lithium iron phosphate	lithium iron phosphate	lithium iron phosphate
Battery life	3500+ (80%)	4000+ (80%)	3500 + (80%)	3500 + (80%)	3500 + (80%)
Power Bank Mode	/	/	AC180, AC70, AC200P, EP500Pro	/	AC200P, AC180, AC70, EB200/P, AC200/P, PS200A, EB120, EB150, EB180, EB240
Expansion ModeSupported models	AC200MAX (2,048Wh)AC200L (2,048Wh)AC300 InverterAC500 InverterApex300 (2,764.8Wh)	AC200MAX (2,048Wh)AC200L (2,048Wh)AC300 InverterAC500 InverterApex300 (2,764.8Wh)	AC200MAX (2,048Wh)AC200L (2,048Wh)AC300 InverterAC500 Inverter	AC500 Inverter	AC200MAX (2,048Wh)AC200L (2,048Wh)
AC input	You need to use energy storage (Apex300/AC200L/AC300/AC500) or other accessories to charge B500KSolarX 4K / Charger 2	You need to use energy storage (Apex300/AC200L/AC300/AC500) or other accessories to charge B500KSolarX 4K / Charger 2	AC-500W (with T500)	AC-500W	100-240VAC, 50/60Hz, 7.5A max
DC input			PV-200W 12-60V,10A	PV-500W VOC 12-60v, 10A	PV-500W maximum 12-60v
Maximum input			700W with D050S 4.5-5.4Hr	1000W with D050S	AC with T500 maximum 500W
Total output port	/	1	3	3	3
Cigarette lighter	/	/	1*12V/10A	1*12V/10A	1*12V/10A
USB-A	/	1*5V/2.4A,12W	1*3.6-12V,3A,18W	1*3.6-12V,3A,18W	1*3.6-12VDC, 3A,18W
USB-C	/	/	1*100W 20V/5A (PD3.0)	1*100W 20V/5A (PD3.0)	1 * 20VDC, 5A, 100W
Handle design	Built-in 2 handles	Built-in 2 handles	Built-in 2 handles	Built-in 2 handles	Built-in 2 handles
Operating temperature	-20-40℃	-20-40℃	-20-40℃	-20-40℃	-20-40℃
Self-heating mode	/	/	/	√	/
Weight	45 kg / 99.21 lbs	29.5kg	36.1kg	38kg	21.8kg
Size	525 × 327 × 308.5 mm/20.67 × 12.87 × 12.15 in	52.5x32.7x20.9cm / 20.67x12.87x8.23in	52 × 32 × 26.6cm	52x32x26.6cm / 20.5x12.6x10.4in	420*280*227.5mm / 16.5*11.0*8.91 inches
Warranty	TBD	3+1 year warranty is 3 years, and the official website can extend the warranty for 1 more year	The 2+2 year warranty is 2 years, and the official website can extend the warranty for an additional 2 years	The 2+2 year warranty is 2 years, and the official website can extend the warranty for an additional 2 years	The 2+2 year warranty is 2 years, and the official website can extend the warranty for an additional 2 years

Recommendation

Unique Selling Points	Promotion Strategy
Best Value for Money	1. Compare key specs: price per Wh, weight per Wh, etc. 2. Emphasize value: "One B500K replaces two B300Ks."
Future-Proof Compatibility	Demo the B500K's plug-and-play compatibility by seamlessly switching it between different compatible units (e.g., AC200L, AC200MAX, AC300, AC500, Apex300).
Massive Scalability up to 100kWh	Highlight the impressive "100kWh" total capacity figure to instantly communicate its power potential. Even it takes 18 B500K batteries.
Versatile Charging & Usage Ecosystem	Showcase the B500K paired with accessories like the SolarX 4K and Hub D1. Promote the Charger 2 compatibility upon its release.
Next-Gen Internal Structure	Use teardown demonstrations to visually compare the B500K's robust internal design with competitors, highlighting its superior build quality. If unable to do so, show the B300K's teardown video as a reference.
Secure Mounting & Easy Mobility	Demonstrate the secure mounting options (wall/shelf) and its compatibility with the Foldable Trolley 2 for easy movement.

Standard Package

Recommended Package	Capacity(Wh)	Cables Needed
B500K Battery & Accessories		
B500K (Long cable P090A)	5,120	-
B500K (Short cable CA90)	5,120	-
B500K + Hub D1	5,120	-
B500K + Foldable Trolley 2	5,120	-
Pair with Apex 300		
B500K + Apex 300	7,885	P090A Long Cables / CA90 Short Cables
B500K + Apex 300 + Hub D1	7,885	
B500K * 2 + Apex 300	13,005	
B500K + Apex 300 + SolarX 4K	7,885	
B500K * 2 + Apex 300 + SolarX 4K	13,005	
B500K * 2 + Apex 300 * 2 + Hub A1	15,770	
For: US/CA/EU/AU Spec		
B500K + Apex300 + Foldable Trolley 2	7,885	

Standard Package

Recommended Package	Capacity(Wh)	Cables Needed
Pair with AC300/500		
B500K + AC300	5,120	P090A Long Cables
B500K * 2 + AC300	10,240	
B500K + AC500	5,120	P090A to P150D Long Cables
B500K * 2+ AC500	10,240	
Pair with AC200L 7 AC200 Max		
B500K + AC200L/Max	7,168	P090A Long Cable

B500K Expansion Battery

B500K	
Battery Info	
Battery Capacity	5,120Wh
Battery Type	LiFePO ₄ (Lithium Iron Phosphate)
Cycle Life	3,500+ cycle to 80% original capacity
General	
Weight	45 kg / 99.21 lbs
Dimensions (L × W × H)	525 × 327 × 308.5 mm / 20.67 × 12.87 × 12.15 in
Charging Temperature	0°C to 40°C / 32°F to 104°F
Discharging Temperature	-20°C to 40°C / -4°F to 104°F
Storage Temperature	Up to 1 month: -20°C to 40°C / -4°F to 104°F Up to 6 months: -20°C to 25°C / -4°F to 77°F
Working Humidity	5% to 95%RH
Charging Current	65A Max.
Discharging Current	70A Max.
2 × Expansion Port	58.4VDC Max., 90A Max.
Warranty	TBD
Compatibility	AC200L, AC200MAX, AC300, AC500, Apex300, B300K

Thank You



TECHNOLOGY
PIONEER
IN CLEAN ENERGY