



TECHNOLOGY
PIONEER
IN CLEAN ENERGY

B4810 51.2V 100Ah

LiFePO₄ Battery

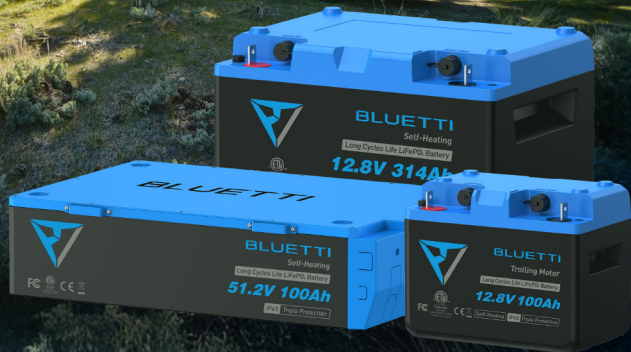
B1232 12.8V 314Ah

LiFePO₄ Battery

B1210 12.8V 100Ah

Trolling Motor LiFePO₄ Battery

Product Portfolio and Reviews' Guide



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01

Introduction

About BLUETTI
Message House

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.



MISSION

Provide clean and independent energy
for all people

VISION

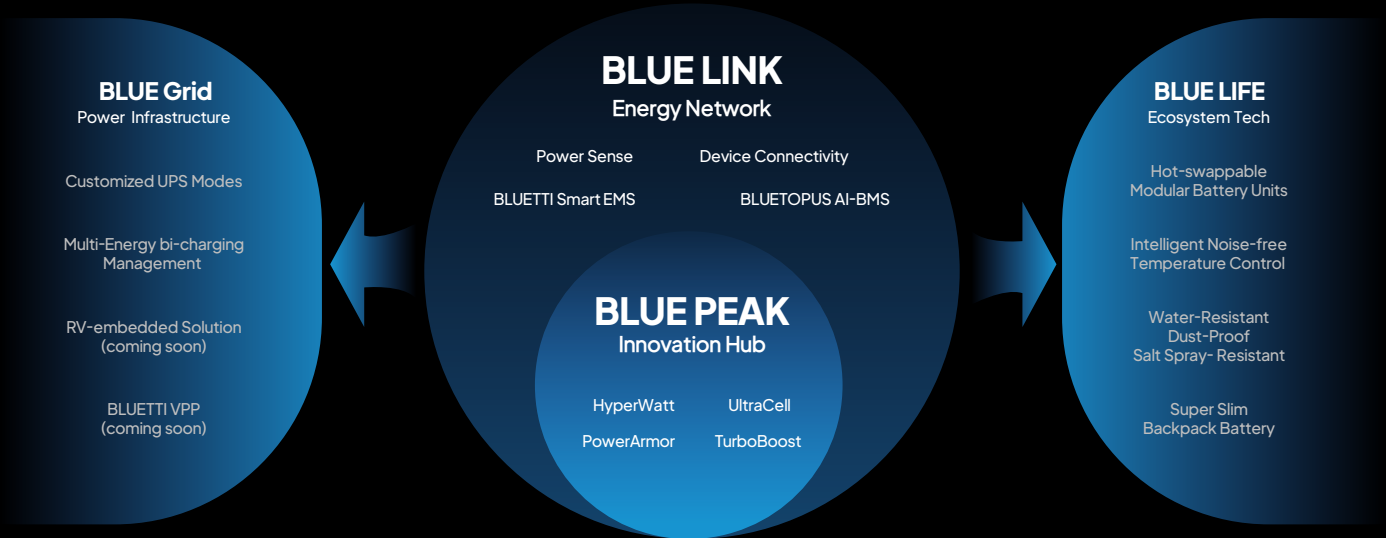
Provide energy storage solutions for
every household

VALUE

Create a better world with love and
innovation



BLUETTI Future Energy Tech System





B4810 51.2V 100Ah LiFePO₄ Battery

1. Intelligent Heating for Cold Weather

Built-in automatic heaters keep your battery at the ideal temperature for reliable, efficient use — even below freezing.

2. Real-Time Monitoring via App

Track battery charge, voltage, current, and temperature with the BLUETTI app — no guesswork.

3. Built for Safety and Durability

Equipped with smart BMS, IP65-rated water and dust resistance, and UL5VA fire-resistant casing for safe, worry-free operation.

4. Long-Lasting, 12× the Life of Lead-Acid

Enjoy over 10 years of reliable power and 6,000+ charge cycles — meaning far fewer battery replacements.

5. Fast & Flexible Charging

Recharge quickly with AC, solar, or generator power — up to ten times faster than lead-acid. Get 80% charged in only 50 minutes, minimizing downtime.

6. Scalable to Fit Your Needs

Start with 5.12 kWh and easily scale up to 122.88 kWh as your power demands grow — perfect for everything from weekend trips to full-time RV living.



B1232 12.8V 314Ah LiFePO₄ Battery

1. Perfect Lead-Acid Replacement

Get 3× the energy density at half the weight — easy to carry, easy to install, and built for high output.

2. Intelligent Heating for Cold Weather

Built-in automatic heaters keep your battery at the ideal temperature for reliable, efficient use — even below freezing.

3. Real-Time Monitoring via App

Track battery charge, voltage, current, and temperature with the BLUETTI app — no guesswork.

4. Built for Safety and Durability

Equipped with smart BMS, IP65-rated water and dust resistance, and UL5VA fire-resistant casing for safe, worry-free operation.

5. Long-Lasting, 12× the Life of Lead-Acid

Enjoy over 10 years of reliable power and 6,000+ charge cycles — meaning far fewer battery replacements.

6. Flexible Charging

Charge using AC power, solar, or a generator. Stay powered up when it matters most.

7. Scalable to Fit Your Needs

Start small or go big — expand from 4 kWh up to 385.8 kWh to match your growing energy demands.



B1210 12.8V 100Ah Trolling Motor LiFePO₄ Battery

1. Serious Power, Built for Trolling Motors

With a peak discharge of 300 A, it delivers the surge your trolling motor needs for smooth, responsive performance — even in tough conditions.

2. Perfect Lead-Acid Replacement

Get 3× the energy density at half the weight — easy to carry, easy to install, and built for high output.

3. Intelligent Heating for Cold Weather

Built-in automatic heaters keep your battery at the ideal temperature for reliable, efficient use — even below freezing.

4. Real-Time Monitoring via App

Track battery charge, voltage, current, and temperature with the BLUETTI app — no guesswork.

5. Built for Safety and Durability

Equipped with smart BMS, IP65-rated water and dust resistance, and UL5VA fire-resistant casing for safe, worry-free operation.

6. Long-Lasting, 12× the Life of Lead-Acid

Enjoy over 10 years of reliable power and 6,000+ charge cycles — meaning far fewer battery replacements.

7. Fast & Flexible Charging

Recharge quickly with AC, solar, or generator power — up to ten times faster than lead-acid. Get 80% charged in only 50 minutes, minimizing downtime.

8. Scalable to Fit Your Needs

Start small or go big — expand from 1.28 kWh up to 122.88 kWh to match your growing energy demands.

02

Product Highlights

Key Specs: B4810 / B1232 / B1210
12V LiFePO₄ vs. 12V Lead-Acid Batteries

1. Key Specs: B4810 / B1232 / B1210

Model	B4810	B1232	B1210
Capacity	5,120 Wh (51.2 V, 100 Ah)	4,019.2 Wh (12.8 V, 314 Ah)	1,280 Wh (12.8 V, 100 Ah)
Cycle Life	6,000 cycles @ 70% capacity		
IP Rating	IP65		
Max. Expansion (Parallel & Series)	122.88 kWh (24P) 51.2 V, 2,400 Ah	385.8 kWh (4S24P) 51.2V, 7,536Ah	122.8 kWh (4S24P) 51.2V, 2,400Ah
Self-Heating	< 0°C (32°F) heating on ; > 25°C (77°F) heating off		
Charge Current	50 A (Recommended) 100 A Max.	70 A (Recommended) 140 A Max.	50 A (Recommended) 100 A Max.
Discharge Current	100 A Max.	140 A Max.	100 A Max.
Peak Discharge Current	200 A @ 30 s	310 A @ 8 s	300 A @ 8 s
Operating Temperature	<ul style="list-style-type: none"> • Charge: -20°C to 55°C (-4°F to 131°F) • Discharge: -20°C to 55°C (-4°F to 131°F) 		
Net Weight	101.4 lbs (46 kg)	64.59 lbs (29.3 kg)	24.25 lbs (11 kg)
Dimensions (L × W × H)	23.94 × 14.96 × 5.71 in (608 × 380 × 145 mm)	16.38 × 11.42 × 9.09 in (416 × 290 × 231 mm)	11.42 × 6.81 × 9.04 in (290 × 173 × 229.5 mm)

Note: In a 4S24P setup, batteries are arranged in 4 strings in series, each with 24 batteries in parallel, totaling 96 batteries.

2. 12V LiFePO₄ vs. 12V Lead-Acid Batteries

2.1 B1210 vs. 100Ah Lead-Acid Battery

Model	B1210	100Ah Lead-Acid Battery	Advantage
Voltage	12.8V		/
Capacity	100Ah		
DoD	98%	50%	2× Usable Capacity
Usable Capacity	98Ah	50Ah	2× Runtime
Cycle Life	6,000+	500+	12× Longer Lifespan
Dimensions (L × W × H)	11.42 × 6.81 × 9.04in (290 × 173 × 229.5mm)	13.1 × 6.9 × 8.6in (348 × 175 × 218mm)	/
Volume	11.54L	13.28L	13% Smaller
Net Weight	24.25lbs (11kg)	63.9lbs (30kg)	63% Lighter
Gravimetric Energy Density	116.4Wh/kg	42.7Wh/kg	2.8× Higher
Volumetric Energy Density	110.9Wh/L	96.4Wh/L	1.15× Higher

2.2 B1232 vs. 300Ah Lead-Acid Battery

Model	B1232	300Ah Lead-Acid Battery	Advantage
Voltage	12.8V		/
Capacity	314Ah	300Ah	
DoD	98%	50%	2× Usable Capacity
Usable Capacity	308Ah	150Ah	2× Runtime
Cycle Life	6,000+	500+	12× Longer Lifespan
Dimensions (L × W × H)	16.4 × 11.4 × 8.8in (416 × 290 × 229.5 mm)	20.5 × 10.6 × 8.9in (520 × 269 × 226 mm)	/
Volume	27.75L	31.6L	12% Smaller
Net Weight	64.59lbs (29.3kg)	169.8lbs (77kg)	62% Lighter
Gravimetric Energy Density	137.2Wh/kg	49.9Wh/kg	2.8× Higher
Volumetric Energy Density	144.8Wh/L	121.5Wh/L	1.14× Higher

03

Key Features & Benefits

B4810 / B1232 / B1210

B4810

51.2V 100Ah

LiFePO₄ Battery



B4810 Overview

Self-Heating for
Cold-Weather Use



Smart BMS

+

IP65

+

UL5VA

Fire-Resistant Casing



12^x

Lead-Acid Lifespan

6,000⁺

Cycles

10-Year

Service Life



Fast Charging

80% Charge in 50 Min
10 × Faster than Lead-Acid



App Real-Time
Monitoring



Expandable

5.12 kWh–122.88 kWh



Consistent Power, Even in the Cold

Built-in heating film kicks in when the battery temperature drops below 32°F (0°C), keeping it around 25°C (77°F) — the sweet spot for peak performance and longer lifespan. Just make sure a steady power input is available, and your power stays reliable and efficient, even in freezing weather.

Self-Heating for Cold Temps

<0°C (32°F)

Heating On

≥25°C (77°F)

Heating Off



Note: The temperatures above refer to the battery's internal temperature. Intelligent heating requires continuous power input.

Know Your Battery, Anytime

Stay informed with live battery data. Connect via Bluetooth to the BLUETTI app and track voltage, current, temperature, and charge level at a glance.

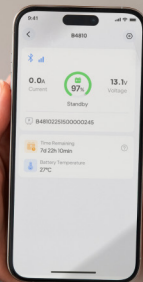
Real-Time Battery Monitoring



Bluetooth Connection



Live Status Updates



Safe, Inside and Out

With intelligent battery management, advanced protection, and a flame-retardant enclosure, every detail works to guard from the inside out. Whether outdoors or in harsh environments, it delivers longterm, reliable performance so you can power up with confidence, anywhere.

BMS Protection

1. Overcharging
2. Over-discharging
3. Overheating
4. Overcurrent
5. Short circuit

IP65 Dust & Water Resistance

Built to handle splashes, rain, and dust—perfect for outdoor, marine, or mobile setups.

UL5VA Flame-Retardant Housing

Designed to self-extinguish within 30 seconds of exposure to flame. Meets top-tier fire safety standards for peace of mind.

Built to Last 10+ Years

Equipped with automotive-grade LiFePO₄ cells that deliver 6,000+ cycles — up to 12x the lifespan of a typical lead-acid battery.

6,000+ Charge Cycles
10+ Years of Use
12x Longer Than Lead-Acid



Fast & Flexible Charging

Charge to 80% in 50 minutes and fully in 75 minutes with up to 100A input — 10x faster than comparable lead-acid batteries. Works with wall outlets, solar panels, and generators for maximum convenience.

80% in **50 Min** (at 100A)
10x Faster Than Lead-Acid



AC
Charging



Generator
Charging



Solar
Charging

Expandable Power, Your Way

Connect up to 24 batteries in parallel to build a system from 5.12 kWh to 122.88 kWh. Perfect for evolving energy needs at home, in the field, or off-grid.

Up to 122.88 kWh
24P Configuration



B4810 Applications



B1232

12.8V 314Ah

LiFePO₄ Battery



B1232 Overview

3×

Energy Density

0.5×

Weight of Lead-Acid

Self-Heating for Cold Weather



Real-Time App
Monitoring



Smart BMS

+

IP65

+

UL5VA

Fire-Resistant Casing



12×

Lead-Acid Lifespan

6,000+

Cycles

10-Year

Service Life



Flexible Charging
AC / Solar / Generator



Expandable

4kWh - 385.8 kWh



A Smarter Replacement for Lead-Acid

Get more power with less bulk. This LiFePO₄ battery is 62% lighter, 12% smaller, and delivers 3× the energy density of traditional 12V lead-acid batteries — making it easier to carry, fit, and power your devices.

62% Lighter

12% Smaller

3× the Energy Density

Consistent Power, Even in the Cold

Built-in heating film kicks in when the battery temperature drops below 0°C (32°F), keeping it around ≥25°C (77°F) — the sweet spot for peak performance and longer lifespan. Just make sure a steady power input is available, and your power stays reliable and efficient, even in freezing weather.

Self-Heating for Cold Temps

<0°C (32°F) Heating On

≥25°C (77°F) Heating Off

Note: The temperatures above refer to the battery's internal temperature. Intelligent heating requires continuous power input.

Know Your Battery, Anytime

Stay informed with live battery data. Connect via Bluetooth to the BLUETTI app and track voltage, current, temperature, and charge level at a glance.

Real-Time Battery Monitoring

Bluetooth Connection

Live Status Updates

0.0A Current

97% Charge

13.3V Voltage

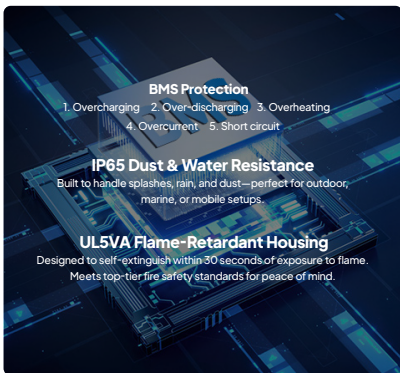
Standby

Time Remaining: 7h 22h 50m

Battery Temperature: 27°C

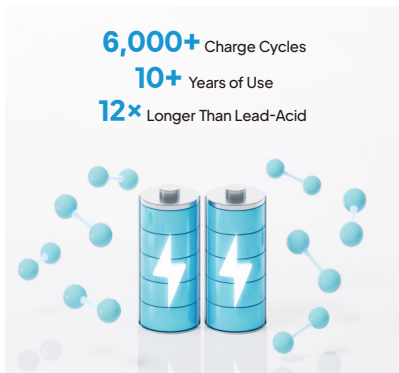
Safe, Inside and Out

With intelligent battery management, advanced protection, and a flame-retardant enclosure, every detail works to guard from the inside out. Whether outdoors or in harsh environments, it delivers longterm, reliable performance so you can power up with confidence, anywhere.



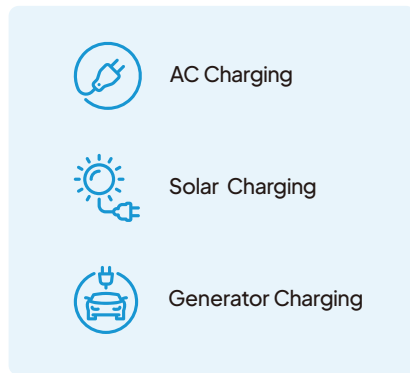
Built to Last 10+ Years

Equipped with automotive-grade LiFePO₄ cells that deliver 6,000+ cycles — up to 12× the lifespan of a typical lead-acid battery.



Charge Any Way You Like

Charge effortlessly from wall outlets, solar panels, or generators — 5× faster than comparable lead-acid batteries. Whether at home, on the go, or in an emergency, you'll have reliable power whenever you need it.



Expandable Power, Your Way

Expand your system by connecting up to 24 batteries in parallel, and up to 4 such parallel strings in series - boosting capacity from 4kWh to a massive 385.8kWh. Perfect for RVs, cabins, or full off-grid living.

Up to 385.8kWh

4S24P Configuration



B1232 Applications



B1210

12.8V 100Ah

Trolling Motor

LiFePO₄ Battery



B1210 Overview

Replace Lead-Acid
Battery

3× **0.5×**

Energy Density Weight

Ultimate Safety

Smart BMS
+
IP65

Fire-Resistant Casing

300A
Peak Discharge

Built for Trolling Motors

Fast Charging

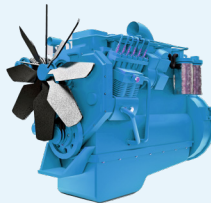
80% in 50 Minutes
10× Faster Than Lead-Acid



Self-Heating for Cold Weather



**Real-Time App
Monitoring**



Expandable

1.28kWh ~ 122.88kWh

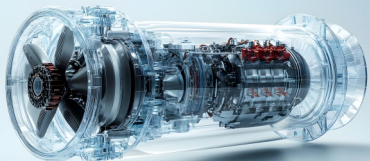


Power Up Your Trolling Motor with Confidence

Get instant, strong power right when you need it. With a 300 A peak current, your trolling motor starts effortlessly and runs smoothly, making every water adventure easier and more enjoyable.

Built for Trolling Motors

Peak **300A** Discharge Current@8s



A Smarter Replacement for Lead-Acid

Weighs 63% less and is 13% smaller than traditional 12V lead-acid batteries of the same capacity. Packs 3x the energy density while fitting Group 27 size, making it easy to carry and fit in tight spaces, yet delivers stable, long-lasting power.

63% Lighter
13% Smaller
3x the Energy Density
Group **27** Sizes

Consistent Power, Even in the Cold

Built-in heating film kicks in when the battery temperature drops below 0°C (32 °F), keeping it around $\geq 25^{\circ}\text{C}$ (77°F)— the sweet spot for peak performance and longer lifespan. Just make sure a steady power input is available, and your power stays reliable and efficient, even in freezing weather.

Self-Heating for Cold Temps

<0°C (32°F) Heating On
 $\geq 25^{\circ}\text{C}$ (77°F) Heating Off



Note: The temperatures above refer to the battery's internal temperature. Intelligent heating requires continuous power input.

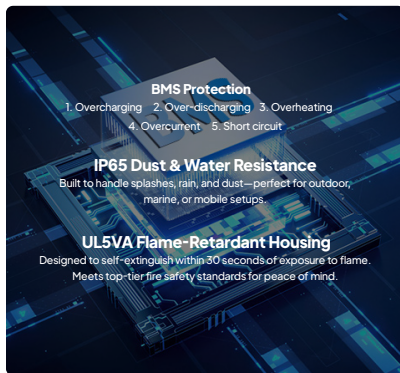
Know Your Battery, Anytime

Stay informed with live battery data. Connect via Bluetooth to the BLUETTI app and track voltage, current, temperature, and charge level at a glance.



Safe, Inside and Out

With intelligent battery management, advanced protection, and a flame-retardant enclosure, every detail works to guard from the inside out. Whether outdoors or in harsh environments, it delivers longterm, reliable performance so you can power up with confidence, anywhere.



Built to Last 10+ Years

Equipped with automotive-grade LiFePO₄ cells that deliver 6,000+ cycles — up to 12× the lifespan of a typical lead-acid battery.



Fast & Flexible Charging

Charge effortlessly from wall outlets, solar panels, or generators
— 10× faster than comparable lead-acid batteries. Whether at home, on the go, or in an emergency, you'll have reliable power whenever you need it.

80% in **50 Min** (at 100A)
10× Faster Than Lead-Acid



AC
Charging



Generator
Charging



Solar
Charging

Expandable Power, Your Way

Expand your system by connecting up to 24 batteries in parallel, and then connect up to 4 of these parallel groups in series. This lets you scale from 4 kWh all the way up to 122.8 kWh — ideal for RVs, cabins, or full off-grid living.

Up to 122.8 kWh

4S24P Configuration



B1210 Applications







04


Side-by-Side Comparison

B4810 / B1232 / B1210

B4810 vs. Competitors

Brand	BLUETTI	Vatrer Power	Renogy	Litime
Model	B4810	-	-	-
Image				
Capacity	5.12 kWh (51.2 V, 100 Ah)	5.12 kWh (51.2 V, 100 Ah)	5.04 kWh (48V, 105 Ah)	5.12 kWh (51.2 V, 100 Ah)
Cycle Life	6,000 cycles @ 70% capacity	5,000 cycles	5,000 cycles @ 80% capacity	4,000 cycles
App Control	Bluetooth	Bluetooth	-	-
IP Rating	IP65	IP67	IP65	-
Max. Expansion (Parallel & Series)	122.88 kWh (24P) 51.2 V, 2,400 Ah	51.2 kWh (10P) 51.2 V, 1,000 Ah	-	81.92 kWh (16P) 51.2 V, 1,600 Ah
Self-Heating	<0°C (32°F) *: heating on >25°C (77°F) *: heating off *Battery internal temperature	-	-	-
Charge Current	50 A (Recommended) 100 A Max.	20 A (Recommended) 100 A Max.	15 A to 105 A (Recommended)	50 A (Recommended) 100 A Max.
Discharge Current	100 A Max.	100 A Max.	210A Max.	100 A Max.
Peak Discharge Current	200 A @30 s	-	400 A @30 s	500 A @1 s
Operating Temperature	<ul style="list-style-type: none"> • Charge: -20°C to 55°C (-4°F to 131°F) • Discharge: -20°C to 55°C (-4°F to 131°F) • Storage: <ul style="list-style-type: none"> 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) 	<ul style="list-style-type: none"> • Charge: 0°C to 45°C (32°F to 113°F) • Discharge: -20°C to 60°C (-4°F to 131°F) • Storage: -10°C to 50°C (14°F to 122°F) • Low temp cut off protection (Charge): 0°C ± 4°C ± (7.2°F/32°F ± 7.2°F) 	<ul style="list-style-type: none"> • Charge: 0°C to 55°C (32°F to 131°F) • Discharge: -20°C to 60°C (-4°F to 140°F) • Storage: -25°C to 65°C (-13°F to 149°F) 	<ul style="list-style-type: none"> • Charge: 0°C to 50°C (32°F to 122°F) • Discharge: -20°C to 60°C (-4°F to 140°F) • Storage: -10°C to 50°C (14°F to 122°F)
Net Weight	101.4 lbs (46 kg)	102.5 lbs (46.5 kg)	42.44 lbs (19.25 kg)	99 lbs (45 kg)
Dimensions (L × W × H)	23.94 × 14.96 × 5.71 in (608 × 380 × 145 mm)	17.4 × 17.72 × 6.97 in (442 × 450 × 177 mm)	15.55 × 12.99 × 10.63 in (395 × 330 × 270 mm)	17.40 × 18.90 × 5.24 in (442 × 480 × 133 mm)

B1232 vs. Competitors

Brand	BLUETTI	Renogy	Renogy
Model	B1232	-	-
Image			
Capacity	4,019.2 Wh (12.8 V, 314 Ah)	3,840 Wh (12.8 V, 300 Ah)	3,840 Wh (12.8 V, 300 Ah)
Cycle Life	6,000 cycles @ 70% capacity	5,000 cycles	5,000 cycles @ 80% capacity
App Control	Bluetooth	Bluetooth	-
IP Rating	IP65	IP65	IP65
Max. Expansion (Parallel & Series)	385.8 kWh (4S24P) 51.2 V, 7,536 Ah	61.4 kWh (4S4P) 51.2 V, 1,200 Ah	61.4 kWh (4S4P) 51.2 V, 1,200 Ah
Self-Heating	<0°C (32°F)*: heating on ≥25°C (77°F)*: heating off *Battery internal temperature	<0°C (32°F): heating on ≥5°C (41°F): heating off	<-2°C (-4°F): heating on ≥0°C (32°F): heating off
Charge Voltage	14.6 V	14.6 V	14.4 V
Charge Current	70 A (Recommended) 140 A Max.	60 A (Recommended) 200 A Max.	200 A Max.
Discharge Current	140 A Max.	200 A Max.	200 A Max.
Peak Discharge Current	310 A @8 s	-	390 A @5s
Operating Temperature	<ul style="list-style-type: none"> • Charge: -20°C to 55°C (-4°F to 131°F) • Discharge: -20°C to 55°C (-4°F to 131°F) • Storage: <ul style="list-style-type: none"> 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) 	<ul style="list-style-type: none"> • Charge: -20°C to 50°C (-4°F to 122°F) • Discharge: -20°C to 60°C (-4°F to 140°F) • Storage: -10°C to 50°C (14°F to 122°F) 	<ul style="list-style-type: none"> • Charge: -20°C-55°C (-4°F-131°F) • Discharge: -20°C-60°C (-4°F-140°F) • Storage: -25C-65°C (-13°F-149°F)
Net Weight	64.59 lbs (29.3 kg)	58.42 lbs (26.5 kg)	60.63 lbs (27.5 kg)
Dimensions (L × W × H)	11.42 × 6.81 × 9.04 in (290 × 173 × 229.5 mm)	20.47 × 10.59 × 8.66 in (520 × 269 × 220 mm)	20.55 × 9.45 × 8.62 in (522 × 240 × 219 mm)

B1210 vs. Competitors

Brand	BLUETTI	EcoFlow	Renogy	LiTime	Vatrer
Model	B1210	-	-	-	-
Image					
Capacity	1,280 Wh (12.8 V, 100 Ah)	1,280 Wh (12.8 V, 100 Ah)	1,280 Wh (12.8 V, 100 Ah)	1,280 Wh (12.8 V, 100 Ah)	1,280 Wh (12.8 V, 100 Ah)
Cycle Life	6,000 cycles @ 70% capacity	6,000 cycles @ 80% capacity	6,000 cycles @ 80% capacity	6,000 cycles @ 80% capacity	5,000 cycles
IP Rating	IP65	IP65	IP65	IP65	IP65
App Control	Bluetooth	-	Bluetooth 5.3	Bluetooth 5.0	Bluetooth
Max. Expansion (Parallel & Series)	122.8 kWh (4S24P) 51.2 V, 2,400 Ah	20.48 kWh (4S4P) 51.2 V, 400 Ah	20.48 kWh (4S4P) 51.2 V, 400 Ah	20.48 kWh (4S4P) 51.2 V, 400 Ah	-
Self-Heating	<0°C (32°F) *: heating on ≥25°C (77°F) *: heating off *Battery internal temperature	-	<5°C (41°F) : heating on ≥10°C (50°F): heating off	<5°C (41°F) : heating on ≥10°C (50°F): heating off	<0°C (32°F) : heating on ≥5°C (41°F): heating off
Charge Voltage	14.6 V	14.4 V	14.6 V	14.4 V	14.2 V-14.6 V
Charge Current	50 A (Recommended) 100 A Max.	50 A (Recommended) 100 A Max.	100 A Max.	100 A Max.	20 A (Recommended) 100 A Max.
Discharge Current	100 A Max.	100 A Max.	100 A Max.	100 A Max.	100 A Max.
Peak Discharge Current	300 A @8 s	300 A @30 s	300 A @10 s	500 A @1 s	-
Operating Temperature	<ul style="list-style-type: none"> • Charge: -20°C to 55°C (-4°F to 131°F) • Discharge: -20°C to 55°C (-4°F to 131°F) • Storage: 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) 	<ul style="list-style-type: none"> • Charge: 0°C to 55°C (32°F to 131°F) • Storage: 0°C to 45°C (32°F to 113°F) 	<ul style="list-style-type: none"> • Charge: -30°C to 55°C (-22°F to 131°F) • Discharge: -20°C to 60°C (-4°F to 140°F) • Storage: -20°C to 45°C (-4°F to 113°F) 	<ul style="list-style-type: none"> • Charge: -20°C to 50°C (-4°F to 122°F) • Discharge: -20°C to 60°C (-4°F to 140°F) • Storage: -10°C to 50°C (-14°F to 122°F) 	<ul style="list-style-type: none"> • Charge: -20°C to 50°C (-4°F to 122°F) • Discharge: -20°C to 60°C (-4°F to 140°F) • Storage: -10°C to 50°C (14°F to 122°F)
Net Weight	24.25 lbs (11 kg)	26.7 lbs (12 kg)	21.38 lbs (9.7 kg)	22.71 lbs (10.32 kg)	24.2 lbs (11 kg)
Group Size	Group 27	-	Group 24	Group 24	-
Dimensions (L x W x H)	11.42 x 6.81 x 9.04 in (290 x 173 x 229.5 mm)	11.4 x 6.9 x 8.7 in (290 x 175 x 221 mm)	9.02 x 5.43 x 8.39 in (229 x 138 x 213 mm)	10.24 x 6.61 x 8.27 in (229 x 138 x 213 mm)	12.95 x 6.77 x 8.42 in (329 x 172 x 214 mm)

05

Product Details

Tech Specs / In the Box

B4810 Specifications

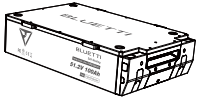
General

Model	B4810
Capacity	5.12kWh (51.2V, 100Ah)
Cycle Life	6,000 cycles @ 70% capacity
IP Rating	IP65
Certifications	MSDS, UN38.3, FCC, CE, RoHS, UL
Max. Expansion (Parallel & Series)	122.88kWh (24P) 51.2V, 2,400Ah
Net Weight	Approx. 101.4lbs (46kg)
Dimensions (L x W x H)	23.94 x 14.96 x 5.71in (608 x 380 x 145mm)

Charging & Discharging

Charge Current	50A (Recommended) 100 A Max.
Discharge Current	100A Max.
Peak Discharge Current	200A @ 30 s
Operating Temperature	Charging: -20°C to 55°C (-4°F to 131°F) Discharging: -20°C to 55°C (-4°F to 131°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) Perform a full charge and discharge cycle before the storage period ends
Cell Temperature Protection	Charging: <-1°C or >61°C (<-30°F or >142°F), recovery @ >2°C or <58°C (>36°F or <136°F) Discharging: <-21°C or >61°C (<-5.8°F or >142°F), recovery @ >2°C or <58°C (>36°F or <136°F)

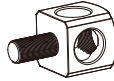
B4810 In the Box



B4810 LiFePO₄ Battery



Ethernet Cable



M8x20 Bolt x2



M8x1.4 Flat Washer x2



M8 Spring Washer x2



M5x10 Bolt x8



M8x20 Bolt x12



M8x30 Bolt x2



M8 Nut x2



Fixed Mounting Bracket x4



ST8 Wood Screw x8



M12x12 Headless Bolt x2



User Manual & Warranty Card

B1232 Specifications

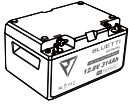
General

Model	B1232
Capacity	4,019.2Wh (12.8V, 314Ah)
Cycle Life	6,000 cycles @ 70% capacity
IP Rating	IP65
Certifications	MSDS, UN38.3, FCC, CE, RoHS, UL
Max. Expansion (Parallel & Series)	385.8kWh (4S24P) 51.2V, 7,536Ah
Net Weight	Approx. 64.59lbs (29.3kg)t
Dimensions (L × W × H)	11.42 × 6.81 × 9.04in (290 × 173 × 229.5mm)

Charging & Discharging

Charge Current	70A (Recommended) 140A Max.
Discharge Current	140A Max.
Peak Discharge Current	310A @ 8 s
Operating Temperature	Charging: -20°C to 55°C (-4°F to 131°F) Discharging: -20°C to 55°C (-4°F to 131°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) Perform a full charge and discharge cycle before the storage period ends
Cell Temperature Protection	Charging: <-1°C or >61°C (<-30°F or >142°F), recovery @ >2°C or <58°C (>36°F or <136°F) Discharging: <-21°C or >61°C (<-5.8°F or >142°F), recovery @ >2°C or <58°C (>36°F or <136°F)

B1232 In the Box



B1232 LiFePO₄ Battery



M8x20 Bolt x4



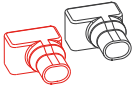
M8x30 Bolt x2



M8 Flange Nut x6



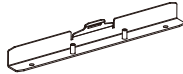
Ethernet Cable



Terminal Cover x2



Drilling Template



Fixed Mounting Bracket-1 x2



Fixed Mounting Bracket-2 x2



ST8 Wood Screw x10



User Manual & Warranty Card

B1210 Specifications

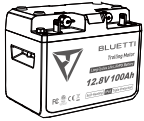
General

Model	B1210
Capacity	1,280Wh (12.8V, 100Ah)
Cycle Life	6,000 cycles @ 70% capacity
IP Rating	IP65
Certifications	MSDS, UN38.3, FCC, CE, RoHS, UL
Max. Expansion (Parallel & Series)	122.8kWh (4S24P) 51.2V, 2,400Ah
Net Weight	Approx. 24.25lbs (11kg)
Dimensions (L x W x H)	11.42 x 6.81 x 9.04in (290x173 x 229.5mm)

Charging & Discharging

Charge Current	50A (Recommended) 100A Max.
Discharge Current	100A Max.
Peak Discharge Current	300A @8 s
Operating Temperature	Charging: -20°C to 55°C (-4°F to 131°F) Discharging: -20°C to 55°C (-4°F to 131°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) Perform a full charge and discharge cycle before the storage period ends
Cell Temperature Protection	Charging: <-1°C or >61°C (<-30°F or >142°F), recovery @ >2°C or <58°C (>36°F or <136°F) Discharging: <-21°C or >61°C (<-5.8°F or >142°F), recovery @ >2°C or <58°C (>36°F or <136°F)

B1210 In the Box



B1210 LiFePO₄ Battery



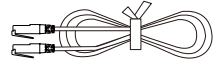
M8x20 Bolt x4



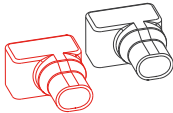
M8x30 Bolt x2



M8 Flange Nut x6



Ethernet Cable



Terminal Cover x2



User Manual & Warranty Card