



**Bioenno Power®**  
www.bioennopower.com



## Bioenno Power® Lithium Iron Phosphate (LiFePO4) Batteries

### Product Features

- Based on state-of-the-art LiFePO4 technology
- Includes PCM (protection circuit module) and BMS
- Excellent for a variety of applications including energy storage, ham radio, solar, E-bikes, E-scooters, golf carts, small motorcycles, power tools, UPS, electronics, E-wheelchairs, etc.
- High specific energy capacity
- Compact Size
- Light weight compared to SLA batteries
- Superior thermal and chemical stability
- Enhanced safety
- Improved cost performance
- Enhanced charge and discharge rates
- Warranty: 2 year (pro-rated)



#### Overview

Based in Santa Ana, California, Bioenno Power is a leading manufacturer of various types of rechargeable lithium-ion batteries, power banks, and solar products. Bioenno Power offers a comprehensive selection of state-of-the-art LiFePO4 (lithium iron phosphate or LFP) batteries for a broad number of applications! LiFePO4 batteries offer more than 2000 charge cycles (with 80% of capacity remaining after 2000 charge cycles), far superior to lead acid batteries which only last a few hundred charge cycles. Bioenno Power batteries are manufactured based on ISO 9001:2008 and ISO 14001 quality/environmental standards, using the best quality materials and workmanship. The batteries are backed by an industry leading 2 year pro-rated Manufacturer's Warranty, with comprehensive technical support based in California.

#### Comprehensive Product Line

Bioenno Power offers a comprehensive product line of LiFePO4 batteries with voltages ranging from 6,9,12,24,36,48,60, and 72V, capacities ranging from 3Ah to 125Ah, continuous discharge current up to 200A, and peak pulse current up to 400A. We offer batteries in a variety of configurations for use in all types of conditions. All batteries include a built-in PCM (protection circuit module) / BMS (battery management system).

#### Applications

- Audio/Visual: Portable audio amplifiers and video projectors
- Bikes and Scooters: E-bikes and E-scooters
- Energy Storage: Power portable electronics when electricity is not available
- Gardening Tools: Grass cutting equipment
- Golf Carts
- Green Energy (Solar and Wind): Energy storage for solar/wind systems
- Ham Radio
- Marine: Boats, fish finders, kayaks, trolling motors
- Medical Equipment
- Motorcycles: E-motorcycles, High discharge rate for starting motorcycles/powersports equipment
- Photography: Professional flash photography systems
- Replacement for SLA (sealed lead acid) batteries
- Telecommunications Equipment
- UPS (Uninterruptible Power Supply)
- Wheelchairs: Power wheelchairs



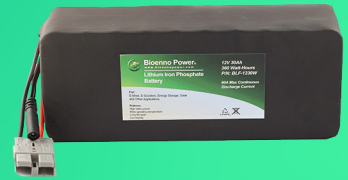
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**Lithium Iron Phosphate  
(LiFePO4) Batteries  
Our Complete Line**



	Model	Voltage (V)	Capacity (Ah)	Watt-Hours	Cont. Discharge Current (A)	Pulse Discharge Current (A) (2 sec.)	Dimensions (in.)	Weight lbs. (kg.)	
6V/9V	BLF-0603W	6	3	18	3	6	2.8 x 2.6 x 0.62	0.36 (0.16)	
	BLF-06045W	6	4.5	27	3	6	2.6 x 2.1 x 1.4	0.56 (0.25)	
	BLF-0612T	6	12	72	6	12	5.9 x 3.7 x 2.6	2.0 (0.91)	
	BLF-0903W	9	3	27	6	12	2.6 x 2.1 x 1.4	0.56 (0.25)	
	BLF-0906W	9	6	54	6	12	2.9 x 2.6 x 2.0	1.1 (0.51)	
12V	BLF-0910W	9	10	90	20	40	5.0 x 2.0 x 2.6	1.9 (0.88)	
	BLF-1203T	12	3	36	3	12	4.3 x 2.7 x 1.4	1.2 (0.55)	
	BLF-1203W	12	3	36	6	12	3.0 x 2.5 x 1.5	0.9 (0.41)	
	BLF-12045W	12	4.5	54	9	18	3.0 x 2.6 x 2.0	1.0 (0.45)	
	BLF-1206T	12	6	72	6	12	4.2 x 2.4 x 2.7	2.0 (0.9)	
	BLF-1206W	12	6	72	12	24	4.3 x 2.6 x 2.1	1.8 (0.79)	
	BLF-1208LB	12	8	96	10	24	5.9 x 3.6 x 2.5	2.4 (1.1)	
	BLF-1208WS	12	8	96	16	16	5.9 x 3.6 x 2.5	2.4 (1.1)	
	BLF-1209T	12	9	108	9	18	5.9 x 3.7 x 2.5	2.7 (1.2)	
	BLF-1209WS	12	9	108	18	36	5.9 x 3.6 x 2.5	2.6 (1.2)	
	BLF-1210T	12	10	120	10	30	5.8 x 3.7 x 2.9	3.4 (1.5)	
	BLF-1212T	12	12	144	12	36	6.0 x 4.0 x 3.8	3.5 (1.6)	
	BLF-1212W	12	12	144	24	48	8.3 x 2.0 x 2.6	3.0 (1.6)	
	BLF-1215T	12	15	180	15	36	6.0 x 6.0 x 3.5	3.5 (1.6)	
	BLF-1215W	12	15	180	30	60	8.4 x 2.5 x 2.6	4.0 (1.8)	
	BLF-1220T	12	20	240	20	60	7.4 x 4.9 x 3.6	7.0 (3.2)	
	BLF-1220TS	12	20	240	20	60	7.0 x 6.5 x 3.0	7.0 (3.2)	
	BLF-1220W	12	20	240	40	80	7.5 x 4.5 x 2.6	5.5 (2.5)	
	BLF-1230W	12	30	360	60	120	10.5 x 2.6 x 4.1	8.0 (3.6)	
	BLF-1240TS	12	40	480	40	80	7.7 x 6.9 x 6.5	13.2 (6.0)	
	BLF-1240W	12	40	480	80	160	8.5 x 7.4 x 3.0	11.0 (5.0)	
	BLF-1250W	12	50	600	100	200	9.5 x 7.5 x 2.8	13.5 (6.1)	
	BLF-1250T	12	50	600	50	100	7.7 x 6.9 x 6.5	14.3 (6.5)	
	BLF-1260T	12	60	720	60	180	12.9 x 8.5 x 6.8	23.1 (10.5)	
	BLF-1260L	12	60	720	30	120	9.5 x 7.1 x 6.3	19.6 (8.9)	
	BLF-1280T	12	80	960	80	160	12.5 x 6.5 x 8.5	26.6 (12)	
	BLF-12100T	12	100	1200	100	300	12.9 x 8.5 x 6.8	33.9 (15.5)	
	BLF-12100W	12	100	1200	200	400	11.5 x 5.5 x 6.3	26 (11.8)	
	BLF-12125T	12	125	1500	100	300	12.9 x 8.5 x 6.8	42 (19)	
	12V High Rate	BLF-120230T	12	7*	28	40	120	6.0 x 3.4 x 3.7	1.3 (0.59)
		BLF-120460T	12	14*	55	46	240	6.0 x 3.4 x 3.7	2.0 (0.91)
		BLF-120230C	12	7*	28	20	60	4.3 x 2.8 x 1.6	0.88 (0.40)
BLF-1205G		12	15*	60	40	120 (5s)	4.3 x 2.2 x 2.7	1.52 (0.69)	
BLF-12075G		12	22*	90	60	180 (5s)	4.3 x 3.3 x 2.7	2.28 (1.04)	
BLF-1210G	12	30*	120	90	260 (5s)	4.3 x 4.3 x 2.7	3.0 (1.36)		
24/ 36/ 48/ 60/ 72V	BLF-2410W	24	10	240	20	40	9.0 x 2.6 x 3.8	5.5 (2.5)	
	BLF-2420W	24	20	480	40	80	8.8 x 3.6 x 5.4	11.0 (5.0)	
	BLF-2450W	24	50	1200	100	200	11.3 x 5.0 x 7.4	27.8 (12.6)	
	BLF-2450T	24	50	1200	50	100	12.5 x 6.5 x 8.5	27.4 (12.4)	
	BLF-3610T	36	10	360	10	30	5.7 x 5.1 x 5.1	8.8 (4.0)	
	BLF-3610W	36	10	360	20	40	9.1 x 5.2 x 2.6	8.0 (3.6)	
	BLF-3620W	36	20	720	40	80	13.4 x 3.8 x 5.2	17.0 (7.7)	
	BLF-3620T	36	20	720	20	60	9.4 x 7.5 x 5.9	18.7 (8.5)	
	BLF-4810W	48	10	480	20	40	12 x 5.2 x 2.8	10.0 (4.5)	
	BLF-4820W	48	20	960	40	80	11.4 x 5.3 x 5.3	21.6 (9.8)	
	BLF-4825T	48	25	960	30	60	14.5 x 5.0 x 5.6	24.8 (11.2)	
	BLF-6010W	60	10	600	20	40	9.5 x 5.3 x 5.0	14.0 (6.3)	
	BLF-7210W	72	10	720	20	40	9.0 x 5.8 x 5.0	16.0 (7.3)	







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Energy Storage Systems, Renewable Power Packs,  
Foldable Solar Panels, and Solar Charge Controllers



1200 W-hr, Energy Storage System



720 W-hr, Renewable Power Pack



240 W-hr, Renewable Power Pack



12 Ah Car Jump Starter

## Product Features

- Based on advanced LiFePO4 (lithium iron phosphate) technology with 2,000 charge life cycles (5+ years) and 6 to 7 times service life when compared to lead acid batteries

- Excellent for energy storage for on-the-go applications, for powering portable equipment (computers, laptops, tablets, cell phones, lights, etc.)

- Built-in solar charge controller, AC-to-DC charger, and DC-to-AC inverter

- Charge using bundled charger or via a solar panel using a built-in solar charge controller

- LCD Display shows capacity remaining

- Wheels/carrying handle for easy transport

- Various AC/DC Outputs

- Includes built-in PCM (protection circuit module) and BMS

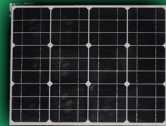
- Manufactured based on ISO9001:2008 and ISO 14001 quality/environmental standards

- Compact size

- Enhanced safety, improved cost performance, and enhanced charge/discharge rates

- Warranty: 2 year (pro-rated)

Bioenno Power offers a complete line of portable/renewable energy storage systems, power packs, foldable solar panels, and solar charge controllers for LFP batteries. The energy storage systems/power packs range from 120/240/360/1200 W-hr and include an integrated solar charge controller, AC-to-DC charger, and DC-to-AC inverter. We also offer 28W foldable solar panels and 12/24/48V solar charge controllers for charging LFP batteries.



Solar Panel / Solar Controller / LiFePO4 Battery



Foldable Solar Panel / 120 W-hr Renewable Pack



Model BPP-1200	Integrated 12V, 100Ah LFP Battery with 1200 W-hr of energy storage and built-in 1000W inverter Built-in Solar Charge Controller, AC-to-DC Charger, and DC-to-AC Inverter DC Outputs: 2 x 5V USB, 3 x 12V Car Charger Socket, 1 x Anderson SB120 Powerpole (12V, 20A) AC Outputs: 2 x 110VAC outlets Wheels for easy transport
Model BPP-720	Integrated 12V, 60Ah LFP Battery with 720 W-hr of energy storage and built-in 1000W inverter Built-in Solar Charge Controller, AC-to-DC Charger, and DC-to-AC Inverter DC Outputs: 2 x 5V USB, 3 x 12V Car Charger Socket, 1 x Anderson SB120 Powerpole (12V, 20A) AC Outputs: 2 x 110VAC outlets Wheels for easy transport
Model BPP-240 / 360	Integrated 12V, 20 Ah / 30Ah LFP Battery with 240 to 360 W-hr of energy storage and built-in 200W inverter Built-in Solar Charge Controller, AC-to-DC Charger, and DC-to-AC Inverter DC Outputs: 1 x 5V USB, 1 x 12V Car Charger Socket AC Output: 1 x 110 VAC outlet Carrying handle for easy transport
Model BPP-120	Integrated 12V, 10Ah LFP Battery with 120 W-hr of energy storage and built-in 100W inverter Built-in Solar Charge Controller and DC-to-AC inverter DC Outputs: 1 x 12V (DC Plug), 1 x 12V (Car Socket Adapter), 1 x 5V USB AC Outputs: 1 x 110 VAC outlet
Foldable Solar Panel Model BSP-28	28 Watts Max Power output 10-15VDC Output (DC Barrel Plug) 5VDC USB Output Can be attached in parallel to provide 50+ watts of power output
Solar Charge Controller 12V/24V/48V for LiFePO4 Batteries	Compatible for charging 12V/24V LFP Batteries, using a solar panel Provides a regulated 12V/24V output for electrical loads Rated charge current: 20A or 30A
Car Jump Starter Model BCC-12	Provides up to 200A for jump starting a dead vehicle battery Also can be used for powering various portable electronics including cell phones, tablets, and laptop computers Power bank Outputs: (1) 5VDC, 2A (USB); (2) 12V, 2A (DC Plug); (3) 19V, 3.5A (DC Plug)



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LiPo Batteries for  
RC Models



## Product Features

- Lightweight Lithium Polymer (Li-Po) batteries, with a compact form factor
- Soft pack and hardcase configurations available
- High continuous discharge rates of 30C with max burst up to 50C!
- High capacity up to 6000 mAh
- High energy density
- Designed for RC airplanes, boats, cars, helicopters, quadcopters, trucks, etc.
- Manufactured using ISO9001:2008 and ISO 14001 quality directives
- Includes Deans discharge connectors!
- Multiple size and configurations available for your power needs
- Warranty: 6 months

Bioenno Power develops and markets a variety of state-of-the-art Lithium-polymer (LiPo) batteries for RC models. These batteries are manufactured under strict quality controls which guarantee consistency, stable performance, and very high reliability! Based on proven performance, our LiPo battery customers are 100% satisfied.

The Bioenno Power Lightweight LiPo Batteries for RC Models have been designed for use in RC airplanes, boats, cars, helicopters, quadcopters, trucks, etc. These lightweight LiPo batteries have a continuous discharge rate of 30C, with max burst of 50C, for outstanding performance and include Deans discharge connectors! Our LiPo batteries have been sold and accepted by enthusiasts across the country, and have also been well tested and demonstrated by numerous RC clubs including the Orange Country Radio Control Club.



Model	Capacity	# of Cells	Voltage	Charge Rate	Discharge Rate	Max Burst	Dimensions	Weight
<b>Soft Packs</b>								
LPB742200	2200 mAh	2S	7.4V	2C	30C	50C	4.09 x 1.34 x 0.63 in. (104 x 34 x 16 mm)	4.94 oz. (140 g)
LPB1112200	2200 mAh	3S	11.1V	2C	30C	50C	4.09 x 1.34 x 0.94 in. (104 x 34 x 24 mm)	7.05 oz. (200 g)
LPB1482200	2200 mAh	4S	14.8V	2C	30C	50C	4.09 x 1.34 x 1.26 in. (104 x 34 x 32 mm)	9.00 oz. (255 g)
LPB742700	2700 mAh	2S	7.4V	2C	30C	50C	4.76 x 1.50 x 0.63 in. (121 x 38 x 16 mm)	5.96 oz. (169 g)
LPB1112700	2700 mAh	3S	11.1V	2C	30C	50C	4.76 x 1.50 x 0.91 in. (121 x 38 x 23 mm)	8.32 oz. (236 g)
LPB1482700	2700 mAh	4S	14.8V	2C	30C	50C	4.76 x 1.50 x 1.18 in. (121 x 38 x 30 mm)	10.7 oz. (303 g)
LPB743300	3300 mAh	2S	7.4V	2C	30C	50C	5.28 x 1.65 x 0.55 in. (134 x 42 x 14 mm)	7.48 oz. (212 g)
LPB1113300	3300 mAh	3S	11.1V	2C	30C	50C	5.28 x 1.65 x 0.83 in. (134 x 42 x 21 mm)	10.5 oz. (298 g)
LPB1483300	3300 mAh	4S	14.8V	2C	30C	50C	5.28 x 1.65 x 1.10 in. (134 x 42 x 28 mm)	13.5 oz. (384 g)
LPB744000	4000 mAh	2S	7.4V	2C	30C	50C	5.31 x 1.69 x 0.63 in. (135 x 43 x 16 mm)	8.47 oz. (240 g)
LPB1114000	4000 mAh	3S	11.1V	2C	30C	50C	5.31 x 1.69 x 0.98 in. (135 x 43 x 25 mm)	12.0 oz. (340 g)
LPB1484000	4000 mAh	4S	14.8V	2C	30C	50C	5.31 x 1.69 x 1.30 in. (135 x 43 x 33 mm)	15.7 oz. (445 g)
LPB745000	5000 mAh	2S	7.4V	2C	30C	50C	6.02 x 1.89 x 0.63 in. (153 x 48 x 16 mm)	11.1 oz. (314 g)
LPB1115000	5000 mAh	3S	11.1V	2C	30C	50C	6.02 x 1.89 x 0.94 in. (153 x 48 x 24 mm)	15.7 oz. (446 g)
LPB1485000	5000 mAh	4S	14.8V	2C	30C	50C	6.02 x 1.89 x 1.26 in. (153 x 48 x 32 mm)	20.6 oz. (583 g)
LPB1855000	5000 mAh	5S	18.5V	2C	30C	50C	6.02 x 1.89 x 1.57 in. (153 x 48 x 40 mm)	25.2 oz. (715 g)
LPB2225000	5000 mAh	6S	22.2V	2C	30C	50C	6.02 x 1.89 x 1.89 in. (153 x 48 x 48 mm)	29.8 oz. (847 g)
<b>Hard Case</b>								
LPB743800	3800 mAh	2S	7.4V	2C	30C	50C	5.43 x 1.81 x 0.98 in (138 x 46 x 25 mm)	10.2 oz. (290 g)
LPB745000	5000 mAh	2S	7.4V	2C	30C	50C	5.43 x 1.81 x 0.98 in (138 x 46 x 25 mm)	12.3 oz. (350 g)
LPB745400	5400 mAh	2S	7.4V	2C	30C	50C	5.43 x 1.81 x 0.98 in (138 x 46 x 25 mm)	12.9 oz. (365 g)

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