



Marine

USAGE GUIDE FOR DEEP-CYCLE
LiFePO₄ BATTERIES
 FOR FISH FINDERS & TROLLING MOTORS



LiFePO₄

LITHIUM IRON PHOSPHATE BATTERIES FOR FISH FINDERS & TROLLING MOTORS

ESTABLISHED IN 2010 AND BASED IN SANTA ANA, CA,
 BIOENNO POWER OFFERS A REMARKABLE REPLACEMENT FOR DEEP-
 CYCLE SLA/AGM BATTERIES USED FOR FISH FINDERS AND TROLLING MOTORS.

SEVERAL BENEFITS & FEATURES INCLUDE:

WEIGHT SAVINGS

Bioenno Power LiFePO₄ batteries are 1/4th the weight of SLA/AGM batteries, for equivalent run-time, allowing for critical performance gains on bass boats, kayaks, and other watercraft.

Bioenno Power LiFePO ₄	SLA/AGM
36V, 50Ah Total Weight: 42 lbs. 78% WEIGHT SAVINGS	Replaces 3 pcs of 12V, 100Ah (in series configuration) TOTAL WEIGHT: ~195 lbs.
12V, 80Ah Total Weight: 22 lbs. 78% WEIGHT SAVINGS	Replaces 2 pcs of 12V, 80Ah (in parallel configuration) TOTAL WEIGHT: ~100 lbs.

2-TO-1 CAPACITY ADVANTAGE

Any Bioenno Power LiFePO₄ battery can replace a comparable lead acid battery that is twice the amp hour rating for the same run-time. For example, a 36V, 50Ah LiFePO₄ replaces 3 pcs of 12V, 100Ah SLA/AGM batteries. A single 12V, 80Ah LiFePO₄ replaces 2 pcs of 12V, 80Ah SLA/AGM batteries.

LOWER TOTAL COST OF OWNERSHIP

Bioenno Power LiFePO₄ batteries offer a lower total cost of ownership over 10 years compared to replacing SLA/AGM batteries 5 times during that period (assuming batteries are replaced every 2 years). For example, a typical 12V, 100Ah SLA/AGM marine battery costs \$220 (and a set of 3 pcs is \$660), so in today's dollars, over 5 years, \$3,300 would be spent. A single 36V, 50Ah battery would cost \$1,300. This would be a 60% savings across 10 years.

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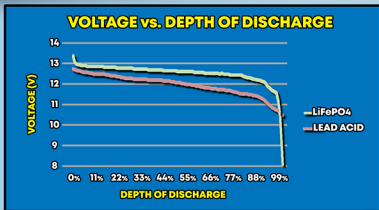


NOTE: THESE BATTERIES ARE NOT FOR STARTING BOAT ENGINES



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Bioenno Power LiFePO₄ batteries maintain their voltage for better performance compared to SLA/AGM batteries.

ENHANCED HIGH-POWER PERFORMANCE

A Bioenno Power battery maintains a higher operating voltage and power level across its discharge, unlike an SLA/AGM battery with a voltage that quickly drops under use. This means equipment runs better, longer, and with no damage as a result of low-voltage operation as found in SLA/AGM batteries.

CYCLE/SERVICE LIFE

Bioenno Power batteries offer 2,000 to 3,000 charge cycles (at 95% depth of discharge) compared to only 300 cycles for SLA/AGM batteries (at 50% depth of discharge). This translates to a service life from 7 to 10 years for LiFePO₄ batteries compared to 2 years for SLA/AGM batteries.

FIELD DATA:

Bioenno Power batteries have been field-tested using typical trolling motors such as the Minn Kota Ultrix 112 lb. The BLF-3650AS (36V, 50Ah LiFePO₄ battery) is a typical battery that is used. Because the batteries maintain a high voltage throughout the operational cycle, impressive run-times have been demonstrated.

NOTE: Run-times vary based on the setting of the trolling motor.

RUN-TIME TABLE FOR THE MINN KOTA ULTRIX 112 lb.

SETTING	ELECTRICAL CURRENT (AMPS)	RUN-TIME (HRS)
1	0.4	500
3	2.8	71
5	11.0	18
7	22.6	8.8
9	41.1	4.8

ASSUMPTION:

Trolling motor is turned on for 15 minutes per hour, on average, to the settings above. Run-times vary based on water current conditions and how long the trolling motor is left on.

CALCULATION:

(Amp-Hours of Battery / Amps) / (1/4 hour)

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MODEL/SKU	VOLTAGE	CAPACITY	WATT HOURS	CONTINUOUS DISCHARGE CURRENT	PULSE DISCHARGE CURRENT	DIMENSIONS (L x W x H)	WEIGHT
BLF-1208LB	12V	8Ah	96	12A	24A	6.0 in. x 2.6 in. x 3.8 in. (151 mm x 65 mm x 95 mm)	2.4 lbs. (1.1 kg)
BLF-1209WS	12V	9Ah	108	18A	40A	6.0 in. x 2.6 in. x 3.8 in. (151 mm x 65 mm x 95 mm)	2.6 lbs. (1.2 kg)
BLF-1212AS	12V	12Ah	144	20A	40A	6.0 in. x 3.9 in. x 3.8 in. (152 mm x 100 mm x 95 mm)	3.6 lbs. (1.6 kg)
BLF-1215AS	12V	15Ah	180	30A	60A	6.0 in. x 3.9 in. x 3.8 in. (150 mm x 100 mm x 94 mm)	4.3 lbs. (1.9 kg.)
BLF-1220AS	12V	20Ah	240	40A	60A	7.2 in. x 3.2 in. x 6.7 in. (182 mm x 77 mm x 171 mm)	5.8 lbs. (2.6 kg)
BLF-1230LB	12V	30Ah	360	30A	60A	7.0 in. x 7.0 in. x 5.0 in. (178 mm x 178 mm x 127 mm)	8.8 lbs. (4.0 kg.)
BLF-1230AS	12V	30Ah	360	30A	60A	8.8 in. x 3.7 in. x 9.0 in. (223 mm x 95 mm x 175 mm)	8.6 lbs. (3.9 kg.)
BLF-1240AS	12V	40Ah	480	40A	80A	8.8 in. x 3.8 in. x 6.9 in. (223 mm x 95 mm x 175 mm)	10.4 lbs. (4.7 kg.)
BLF-1250AS	12V	50Ah	600	50A	100A	8.9 in. x 4.8 in. x 6.9 in. (224 mm x 120 mm x 176 mm)	13.6 lbs. (6.2 kg.)
BLF-1260AS	12V	60Ah	840	60A	120A	8.9 in. x 5.4 in. x 8.1 in. (228 mm x 137 mm x 204 mm)	17.4 lbs. (7.9 kg)
BLF-1280AS	12V	80Ah	960	80A	160A	10.3 in. x 6.7 in. x 8.4 in. (260 mm x 170 mm x 212 mm)	22.3 lbs. (10.1 kg.)
BLF-12100AS	12V	100Ah	1200	100A	200A	12.9 in. x 6.6 in. x 8.5 in. (330 mm x 168 mm x 216 mm)	28.2 lbs. (12.8 kg.)
BLF-12150AS	12V	150Ah	1800	100A	200A	19.6 in. x 6.8 in. x 9.6 in. (496 mm x 172 mm x 242 mm)	41.1 lbs. (18.7 kg.)
BLF-12200AS	12V	200Ah	2400	100A	200A	19.6 in. x 6.8 in. x 9.6 in. (496 mm x 172 mm x 242 mm)	53.5 lbs. (24.3 kg.)
BLF-12300AS	12V	300Ah	3600	100A	200A	20.7 in. x 10.4 in. x 8.6 in. (525 mm x 263 mm x 217 mm)	78 lbs. (35.4 kg)
BLF-2410AS	24V	10Ah	240	10A	20A	7.2 in. x 3.2 in. x 6.7 in. (182 mm x 77 mm x 171 mm)	5.7 lbs. (2.6 kg.)
BLF-2420AS	24V	20Ah	480	20A	40A	8.8 in. x 4.7 in. x 6.9 in. (224 mm x 120 mm x 176 mm)	11.6 lbs. (5.3 kg.)
BLF-2450AS	24V	50Ah	1200	50A	100A	12.9 in. x 6.6 in. x 8.5 in. (330 mm x 168 mm x 216 mm)	28.9 lbs. (13.1 kg.)
BLF-3650AS	36V	50Ah	1800	50A	100A	19.6 in. x 6.8 in. x 9.6 in. (496 mm x 172 mm x 242 mm)	41.9 lbs. (19 kg.)
BLF-4850AS	48V	50Ah	2250	50A	60A	20.7 in. x 10.4 in. x 8.6 in. (525 mm x 263 mm x 217 mm)	57.1 lbs. (25.9 kg.)





HUMMINBIRD®

FISH FINDER Model	DRAW Amps	RUN- TIME Hours	COMPATIBLE MODELS	
			ABS models are listed. PVC models will also work but are not water resistant*	
SOLIX 10 CHIRP GPS	2.40	6-12.5	BLF-1215AS, BLF-1220AS, BLF-1230AS/LB	
SOLIX 10 CHIRP MEGA SI GPS	2.40	6-12.5	BLF-1215AS, BLF-1220AS, BLF-1230AS/LB	
SOLIX 12 CHIRP GPS	2.88	7-14	BLF-1220AS, BLF-1230AS/LB, BLF-1240AS	
SOLIX 12 CHIRP MEGA SI GPS	2.88	7-14	BLF-1220AS, BLF-1230AS/LB, BLF-1240AS	
SOLIX 15 CHIRP GPS	4.56	4-11	BLF-1220AS, BLF-1230AS/LB, BLF-1250AS	
SOLIX 15 CHIRP MEGA SI GPS	4.56	4-11	BLF-1220AS, BLF-1230AS/LB, BLF-1240AS, BLF-1250AS	
HELIX 9 CHIRP GPS	1.00	9-15	BLF-1209AS, BLF-1212AS, BLF-1215AS	
HELIX 9 CHIRP DI GPS	1.00	9-15	BLF-1209AS, BLF-1212AS, BLF-1215AS	
HELIX 9 CHIRP MEGA DI GPS	1.00	9-15	BLF-1209AS, BLF-1212AS, BLF-1215AS	
HELIX 9 CHIRP MEGA SI GPS	1.00	9-15	BLF-1209AS, BLF-1212AS, BLF-1215AS	
HELIX 10 CHIRP GPS	1.20	7.5-12.5	BLF-1209AS, BLF-1212AS, BLF-1215AS	
HELIX 10 CHIRP DI GPS	1.20	7.5-12.5	BLF-1209AS, BLF-1212AS, BLF-1215AS	
HELIX 10 CHIRP MEGA DI GPS	1.20	7.5-12.5	BLF-1209AS, BLF-1212AS, BLF-1215AS	
HELIX 10 CHIRP MEGA SI GPS	1.20	7.5-12.5	BLF-1209AS, BLF-1212AS, BLF-1215AS	
HELIX 12 CHIRP GPS	1.75	7-11	BLF-1212AS, BLF-1215AS, BLF-1220AS	
HELIX 12 CHIRP DI GPS	1.75	7-11	BLF-1212AS, BLF-1215AS, BLF-1220AS	
HELIX 12 CHIRP MEGA DI GPS	1.75	7-11	BLF-1212AS, BLF-1215AS, BLF-1220AS	
HELIX 12 CHIRP MEGA SI GPS	1.75	7-11	BLF-1212AS, BLF-1215AS, BLF-1220AS	
HELIX 5 SONAR	0.65	14-18	BLF-1209AS, BLF-1212AS	
HELIX 5 DI	0.55	16	BLF-1209AS	
HELIX 5 CHIRP GPS	0.62	14	BLF-1209AS	
HELIX 5 CHIRP DI GPS	0.62	14	BLF-1209AS	
HELIX 5 CHIRP SI GPS	0.62	14	BLF-1209AS	
HELIX 7 SONAR	0.80	11-15	BLF-1209AS, BLF-1212AS	
HELIX 7 CHIRP DI	0.80	11-15	BLF-1209AS, BLF-1212AS	
HELIX 7 CHIRP GPS	0.80	11-15	BLF-1209AS, BLF-1212AS	
HELIX 7 CHIRP GPS (NETWORKING)	0.80	11-15	BLF-1209AS, BLF-1212AS	
HELIX 7 CHIRP DI GPS	0.80	11-15	BLF-1209AS, BLF-1212AS	
HELIX 7 CHIRP DI GPS (NETWORKING)	0.80	11-15	BLF-1209AS, BLF-1212AS	
HELIX 7 CHIRP SI GPS	0.80	11-15	BLF-1209AS, BLF-1212AS	
HELIX 7 CHIRP SI GPS (NETWORKING)	0.80	11-15	BLF-1209AS, BLF-1212AS	
PIRANHAMAX 4	0.18	50	BLF-1209AS	
PIRANHAMAX 4 DI	0.18	50	BLF-1209AS	
FISHIN' BUDDY MAX	0.22	40	BLF-1209AS	
FISHIN' BUDDY MAX DI	0.22	40	BLF-1209AS	
ICE 35	0.21	42	BLF-1209AS	
ICE 45	0.25	36	BLF-1209AS	
ICE 55	0.25	36	BLF-1209AS	
ICE HELIX 5 CHIRP GPS	0.60	15	BLF-1209AS	
ICE HELIX 7 CHIRP GPS	0.85	10-14	BLF-1209AS, BLF-1212AS	

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 Bioenno Power bases the battery model recommendations on the specifications quoted by the manufacturer of the marine application device assuming discharge at the listed draw.

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GARMIN®

FISH FINDER Model	DRAW Amps	RUN-TIME Hours	COMPATIBLE MODELS
GPSMAP 8617/8417	2.80	7-17	BLF-1220AS, BLF-1230AS/LB, BLF-1240AS, BLF-1250AS
GPSMAP 8622/8422	3.90	5-12	BLF-1220AS, BLF-1230AS/LB, BLF-1240AS, BLF-1250AS
GPSMAP 8624/8424	6.10	6-16	BLF-1240AS, BLF-1250AS, BLF-1260AS, BLF-1280AS, BLF-12100AS
GPSMAP 7607XSV/7607	1.50	8-13	BLF-1212AS, BLF-1215AS, BLF-1220AS
GPSMAP 7608XSV/7608	1.80	8-22	BLF-1215AS, BLF-1220AS, BLF-1230AS/LB, BLF-1240AS
GPSMAP 7610XSV/7608	1.95	8-20	BLF-1215AS, BLF-1220AS, BLF-1230AS/LB, BLF-1240AS
GPSMAP 7612XSV/7612	2.50	6-16	BLF-1215AS, BLF-1220AS, BLF-1230AS/LB, BLF-1240AS
GPSMAP 7616XSV/7616	3.80	4-10.5	BLF-1215AS, BLF-1220AS, BLF-1230AS/LB, BLF-1240AS
ECHOMAP PLUS 44CV/43CV	1.50	8-13	BLF-1212AS, BLF-1215AS, BLF-1220AS
ECHOMAP PLUS 64CV/63CV	1.50	8-13	BLF-1212AS, BLF-1215AS, BLF-1220AS
ECHOMAP PLUS 74CV/73CV	1.80	8-16	BLF-1215AS, BLF-1220AS, BLF-1230AS/LB
ECHOMAP PLUS 74SV/73SV	1.80	8-16	BLF-1215AS, BLF-1220AS, BLF-1230AS/LB
ECHOMAP PLUS 94SV/93SV	1.95	7-15	BLF-1215AS, BLF-1220AS, BLF-1230AS/LB
GPSMAP 742XS/742	1.90	8-15	BLF-1215AS, BLF-1220AS, BLF-1230AS/LB
GPSMAP 942XS/942	1.90	8-15	BLF-1215AS, BLF-1220AS, BLF-1230AS/LB
GPSMAP 1242XSV TOUCH/1242 TOUCH	2.50	6-16	BLF-1215AS, BLF-1220AS, BLF-1230AS/LB, BLF-1240AS
GPSMAP 1242XSV/1242	2.50	6-16	BLF-1215AS, BLF-1220AS, BLF-1230AS/LB, BLF-1240AS
GPSMAP 1042XSV/1042	2.50	6-16	BLF-1215AS, BLF-1220AS, BLF-1230AS/LB, BLF-1240AS
STRIKER 4	1.00	9-15	BLF-1209AS, BLF-1212AS, BLF-1215AS
STRIKER PLUS 4CV	1.50	8-13	BLF-1212AS, BLF-1215AS, BLF-1220AS
STRIKER PLUS 5CV	1.50	8-13	BLF-1212AS, BLF-1215AS, BLF-1220AS
STRIKER PLUS 7CV	1.50	8-13	BLF-1212AS, BLF-1215AS, BLF-1220AS
STRIKER PLUS 7SV	1.50	8-13	BLF-1212AS, BLF-1215AS, BLF-1220AS
STRIKER PLUS 9SV	1.50	8-13	BLF-1212AS, BLF-1215AS, BLF-1220AS

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LOWRANCE®

FISH FINDER Model	DRAW Amps	RUN-TIME Hours	COMPATIBLE MODELS
HDS CARBON 7	1.50	8-13	BLF-1212AS, BLF-1215AS, BLF-1220AS
HDS CARBON 9	1.75	7-11	BLF-1212AS, BLF-1215AS, BLF-1220AS
HDS CARBON 12	2.00	7.5-20	BLF-1215AS, BLF-1220AS, BLF-1230AS/LB, BLF-1240AS
HDS CARBON 16	2.75	5-14	BLF-1215AS, BLF-1220AS, BLF-1230AS/LB, BLF-1240AS
HDS-7 GEN 3	1.50	7-15	BLF-1212AS, BLF-1215AS, BLF-1220AS
HDS-9 GEN 3	1.50	8-13	BLF-1212AS, BLF-1215AS, BLF-1220AS
HDS-12 GEN 3	2.00	7.5-20	BLF-1215AS, BLF-1220AS, BLF-1230AS/LB, BLF-1240AS
ELITE-5 TI	0.90	10-16	BLF-1209AS, BLF-1212AS, BLF-1215AS
ELITE-7 TI	0.90	10-16	BLF-1209AS, BLF-1212AS, BLF-1215AS
ELITE-9 TI	0.90	10-16	BLF-1209AS, BLF-1212AS, BLF-1215AS
ELITE-12 TI	1.80	6-11	BLF-1212AS, BLF-1215AS, BLF-1220AS
HOOK2 4X BULLET	0.75	12-16	BLF-1209AS, BLF-1212AS
HOOK2 4X GPS BULLET	0.75	12-16	BLF-1209AS, BLF-1212AS
HOOK2 5X GPS SPLITSHOT	0.75	12-16	BLF-1209AS, BLF-1212AS
HOOK2 5X SPLITSHOT	0.75	12-16	BLF-1209AS, BLF-1212AS
HOOK2 7X GPS SPLITSHOT	0.75	12-16	BLF-1209AS, BLF-1212AS
HOOK2 7 SPLITSHOT	0.75	12-16	BLF-1209AS, BLF-1212AS
HOOK2 9 SPLITSHOT	0.75	12-16	BLF-1209AS, BLF-1212AS
HOOK2 5 TRIPLESHOT	0.75	12-16	BLF-1209AS, BLF-1212AS
HOOK2 7X GPS TRIPLESHOT	0.75	12-16	BLF-1209AS, BLF-1212AS
HOOK2 7 TRIPLESHOT	0.75	12-16	BLF-1209AS, BLF-1212AS
HOOK2 9 TRIPLESHOT	0.75	12-16	BLF-1209AS, BLF-1212AS
HOOK2 12 TRIPLESHOT	0.75	12-16	BLF-1209AS, BLF-1212AS
HOOK 5	0.05-1	9	BLF-1209AS
HOOK 4X	0.075-1 (Variable)	9-12	BLF-1209AS, BLF-1212AS
HOOK 7	0.075-1 (Variable)	9-12	BLF-1209AS, BLF-1212AS
HOOK 5X	0.075-1 (Variable)	9-12	BLF-1209AS, BLF-1212AS
HOOK 7X	0.075-1 (Variable)	9-12	BLF-1209AS, BLF-1212AS

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Raymarine®

FISH FINDER Model	MAX DRAW Watts	RUN-TIME Hours	COMPATIBLE MODELS
DRAGONFLY 4DV	3.00	3-7	BLF-1209AS, BLF-1212AS
DRAGONFLY 4DVS	3.90	3-7	BLF-1209AS, BLF-1212AS
DRAGONFLY 4PRO	4.30	2-5	BLF-1209AS, BLF-1212AS
DRAGONFLY 5DVS	4.70	2-4	BLF-1209AS, BLF-1212AS
DRAGONFLY 5M	2.90	3-7	BLF-1209AS, BLF-1212AS
DRAGONFLY 5PRO	5.30	2-4	BLF-1209AS, BLF-1212AS, BLF-1215AS
DRAGONFLY 7PRO	9.00	1-4	BLF-1209AS, BLF-1212AS, BLF-1215AS, BLF-1220AS
ES75	4.3-7.97 (Variable)	2-5	BLF-1209AS, BLF-1212AS, BLF-1215AS, BLF-1220AS
ES78	6.28-11.7 (Variable)	2-6	BLF-1209AS, BLF-1212AS, BLF-1215AS, BLF-1220AS
ES97	9.4-20 (Variable)	2-5	BLF-1215AS, BLF-1220AS, BLF-1230AS/LB, BLF-1240AS, BLF-1250AS
ES98	9.4-20 (Variable)	2-5	BLF-1215AS, BLF-1220AS, BLF-1230AS/LB, BLF-1240AS, BLF-1250AS
ES127	10-29.6 (Variable)	2-6	BLF-1220AS, BLF-1230AS/LB, BLF-1240AS, BLF-1250AS, BLF-1260AS/LB
ES128	10-29.6 (Variable)	2-6	BLF-1220AS, BLF-1230AS/LB, BLF-1240AS, BLF-1250AS, BLF-1260AS/LB
AXIOM 7 CHARTPLOTTER	7.34	2-6	BLF-1209AS, BLF-1212AS, BLF-1215AS, BLF-1220AS
AXIOM 7DV	10.02	1-4	BLF-1209AS, BLF-1212AS, BLF-1215AS, BLF-1220AS
AXIOM 7RV	9.84	1-2	BLF-1209AS, BLF-1212AS, BLF-1215AS, BLF-1220AS
AXIOM 9 CHARTPLOTTER	8.95	1-3	BLF-1209AS, BLF-1212AS, BLF-1215AS, BLF-1220AS
AXIOM 9RV	11.98	1-3	BLF-1209AS, BLF-1212AS, BLF-1215AS, BLF-1220AS, BLF-1230AS/LB
AXIOM 12 CHARTPLOTTER	15.48	1-2	BLF-1212AS, BLF-1215AS, BLF-1220AS, BLF-1230AS/LB
AXIOM 12RV	18.96	1-2	BLF-1215AS, BLF-1220AS, BLF-1230AS/LB, BLF-1240AS
AXIOM PRO 9	20.00	1-2.5	BLF-1220AS, BLF-1230AS/LB, BLF-1240AS, BLF-1250AS
AXIOM PRO 12	35.00	1-2	BLF-1230AS/LB, BLF-1240AS, BLF-1250AS, BLF-1260AS/LB
AXIOM PRO 16	45.00	1-3	BLF-1240AS, BLF-1250AS, BLF-1260AS/LB, BLF-1280AS, BLF-12100AS
CP100	3.00	3-7	BLF-1209AS
CP200	5.60	2-4	BLF-1209AS, BLF-1212AS
CP370 DIGITAL SONAR	30.60	1-2	BLF-1220AS, BLF-1230AS/LB, BLF-1240AS, BLF-1250AS, BLF-1260AS/LB
CP470 CHIRP SONAR	30.60	1-2	BLF-1220AS, BLF-1230AS/LB, BLF-1240AS, BLF-1250AS, BLF-1260AS/LB

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MINN KOTA
 SALTWATER

MINN KOTA (SALTWATER)
 Trolling Motor model

THRUST
 Lbs.

VOLTAGE
**MAX
DRAW**
 Amps

COMPATIBLE MODELS
Add models one letter*
RIPTIDE ULTRERRA

RIPTIDE ULTRERRA 112/IP/BT	112	36	52	BLF-3630AS, BLF-3650AS
RIPTIDE ULTRERRA 112/IP/BT	80	24	56	BLF-2450AS
RIPTIDE ULTRERRA 112/IP LINK/BT	112	36	52	BLF-3630AS, BLF-3650AS
RIPTIDE ULTRERRA 80/IP LINK/BT	80	24	56	BLF-2450AS

RIPTIDE TERROVA

RIPTIDE TERROVA 80/CP/BT	80	24	56	BLF-2450AS
RIPTIDE TERROVA 112/IP/BT	112	36	52	BLF-3630AS, BLF-3650AS
RIPTIDE TERROVA 80/IP/BT	80	24	56	BLF-2450AS
RIPTIDE TERROVA 55/IP/BT	55	12	50	BLF-1280AS, BLF-12100AS
RIPTIDE TERROVA 80/IP LINK/BT	80	24	56	BLF-2450AS
RIPTIDE TERROVA 55/IP LINK/BT	55	12	50	BLF-1280AS, BLF-12100AS

RIPTIDE POWERDRIVE

RIPTIDE POWERDRIVE 70/CP/BT	70	24	42	BLF-1260AS, BLF-1280AS, BLF-12100AS
RIPTIDE POWERDRIVE 55/CP/BT	55	12	50	BLF-1280AS, BLF-12100AS
RIPTIDE POWERDRIVE 70/IP/BT	70	24	42	BLF-2450AS
RIPTIDE POWERDRIVE 55/IP/BT	55	12	50	BLF-1280AS, BLF-12100AS

RIPTIDE FORTREX

RIPTIDE FORTREX 112	112	36	52	BLF-3630AS, BLF-3650AS
RIPTIDE FORTREX 80	80	24	56	BLF-2450AS

RIPTIDE MAXXUM

RIPTIDE MAXXUM 80/L D/H	80	24	56	BLF-2450AS
RIPTIDE MAXXUM 80/BO/H	80	24	56	BLF-2450AS
RIPTIDE MAXXUM 70/L D/SC/H	70	24	42	BLF-2450AS
RIPTIDE MAXXUM 55/L D/SC/H	55	12	50	BLF-1280AS, BLF-12100AS
RIPTIDE MAXXUM 55/L D/H	55	12	50	BLF-1280AS, BLF-12100AS

RIPTIDE EDGE

RIPTIDE EDGE 70/H	70	24	42	BLF-2450AS
RIPTIDE EDGE 55/H	55	12	50	BLF-1280AS, BLF-12100AS

RIPTIDE TRANSOM

RIPTIDE TRANSOM 112	112	36	52	BLF-3630AS, BLF-3650AS
RIPTIDE TRANSOM 80	80	24	56	BLF-2450AS
RIPTIDE TRANSOM 55	55	24	56	BLF-2450AS
RIPTIDE TRANSOM 46	46	12	42	BLF-1260AS, BLF-1280AS, BLF-12100AS
RIPTIDE TRANSOM 55/SC	55	12	50	BLF-1280AS, BLF-12100AS
RIPTIDE TRANSOM 45/SC	45	12	42	BLF-1260AS, BLF-1280AS, BLF-12100AS

RIPTIDE

RIPTIDE 80/EM	80	24	58	BLF-2450AS
RIPTIDE 55/EM	55	12	50	BLF-2450AS

*All current draw figures represented are as listed by their respective manufacturers for current production products only; legacy products, and other older versions which have been deprecated, discontinued and/or replaced as of 06/22/2018 are not represented. Bioenno Power bases the battery model recommendations on the specifications quoted by the manufacturer of the marine application device assuming discharge at the listed draw.

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NOTE: THESE BATTERIES ARE NOT FOR STARTING BOAT ENGINES


MINN KOTA (FRESHWATER)
 Trolling Motor model

THRUST
 Lbs.

VOLTAGE
**MAX
DRAW**
 Amps

COMPATIBLE MODELS
 ABS models are listed*

ULTERRA

ULTERRA 112/IP/US2/BT	112	36	52	BLF-3630AS, BLF-3650AS
ULTERRA 80/IP/US2/BT	80	24	56	BLF-2450AS
ULTERRA 112/IP LINK/US2/BT	112	36	52	BLF-3630AS, BLF-3650AS
ULTERRA 80/IP LINK/US2/BT	80	24	56	BLF-2450AS

TERROVA

TERROVA 80/US2/BT	80	24	56	BLF-2450AS
TERROVA 80/BT	80	24	56	BLF-2450AS
TERROVA 55/BT	55	12	50	BLF-1280AS, BLF-12100AS
TERROVA 112/IP/US2/BT	112	36	52	BLF-3630AS, BLF-3650AS
TERROVA 80/IP/US2/BT	80	24	56	BLF-2450AS
TERROVA 55/IP/US2/BT	55	12	50	BLF-1280AS, BLF-12100AS
TERROVA 112/IP LINK/US2/BT	112	36	52	BLF-3630AS, BLF-3650AS
TERROVA 80/IP LINK/US2/BT	80	24	56	BLF-2450AS
TERROVA 55/IP LINK/US2/BT	55	12	50	BLF-1280AS, BLF-12100AS
TERROVA 55/IP LINK/US2/BT (NO P)	55	12	50	BLF-1280AS, BLF-12100AS

POWERDRIVE

POWERDRIVE 70/US2/BT	70	24	42	BLF-2450AS
POWERDRIVE 70 BT	70	24	42	BLF-2450AS
POWERDRIVE 55/US2/BT	55	12	50	BLF-1280AS, BLF-12100AS
POWERDRIVE 55/BT	55	12	50	BLF-1280AS, BLF-12100AS
POWERDRIVE 45/BT	45	12	42	LF-1260AS, BLF-1280AS, BLF-12100AS
POWERDRIVE 70/IP/US2/BT	70	24	42	BLF-2450AS
POWERDRIVE 70/IP/BT	70	24	42	BLF-2450AS
POWERDRIVE 55/IP/US2/BT	55	12	50	BLF-1280AS, BLF-12100AS
POWERDRIVE 55/IP/BT	55	12	50	BLF-1280AS, BLF-12100AS

ULTREX

ULTREX 112/IP/US2/BT	112	36	52	BLF-3630AS, BLF-3650AS
ULTREX 80/IP/US2/BT	80	24	56	BLF-2450AS
ULTREX 112/IP LINK/US2/BT	112	36	52	BLF-1280AS, BLF-12100AS
ULTREX 80/IP LINK/US2/BT	80	24	56	BLF-2450AS

FORTREX

FORTREX 112/US2	112	36	52	BLF-3630AS, BLF-3650AS
FORTREX 112/HC	112	36	52	BLF-3630AS, BLF-3650AS
FORTREX 112	112	36	52	BLF-3630AS, BLF-3650AS
FORTREX 80/US2	80	24	56	BLF-2450AS
FORTREX 80	80	24	56	BLF-2450AS

MAXXUM

MAXXUM 80	80	24	56	BLF-2450AS
MAXXUM 70	70	24	42	BLF-2450AS
MAXXUM 70/SC	70	24	42	BLF-2450AS
MAXXUM 80/H	80	24	56	BLF-2450AS
MAXXUM 70/SC/H	70	24	42	BLF-2450AS
MAXXUM 55/SC/H	55	12	50	BLF-1280AS, BLF-12100AS

*All current draw figures represented on or listed by their respective manufacturers for use with their respective products only. Ingress protection, and other safety features which have been discontinued, discontinued and/or replaced as of 06/23/2018 are not represented.
 †Maximum power draw is the factory's stated recommendation for the application based on the manufacturer of the trolling motor device operating on the boat of the listed class.




MINN KOTA (FRESHWATER)
 Trolling Motor model

 THRUST
 Lbs.

 VOLTAGE
 Amps

 MAX
 DRAW
 Amps

 COMPATIBLE MODELS
 ABS models are listed*

EDGE

EDGE 70	70	24	42	BLF-2450AS
EDGE 55	55	12	50	BLF-1280AS, BLF-12100AS
EDGE 55/H	55/H	12	50	BLF-1280AS, BLF-12100AS
EDGE 45	45	12	42	BLF-1260AS, BLF-1280AS, BLF-12100AS
EDGE 45/H	45	12	42	BLF-1260AS, BLF-1280AS, BLF-12100AS

VANTAGE

VANTAGE 101	101	36	46	BLF-3630AS, BLF-3650AS
VANTAGE 80	50	24	56	BLF-2450AS

TRAXXIS

TRAXXIS 80	50	24	56	BLF-2450AS
TRAXXIS 70	70	24	42	BLF-2450AS
TRAXXIS 55	55	12	50	BLF-1280AS, BLF-12100AS
TRAXXIS 45	45	12	42	BLF-1260AS, BLF-1280AS, BLF-12100AS

ENDURAMAX

ENDURAMAX 55	55	12	50	BLF-1280AS, BLF-12100AS
ENDURAMAX 50	50	12	42	BLF-1260AS, BLF-1280AS, BLF-12100AS
ENDURAMAX 45	45	12	42	BLF-1260AS, BLF-1280AS, BLF-12100AS
ENDURAMAX 40	40	12	42	BLF-1260AS, BLF-1280AS, BLF-12100AS

ENDURA

ENDURA C2 55	55	12	50	BLF-1280AS, BLF-12100AS
ENDURA C2 50	50	12	42	BLF-1260AS, BLF-1280AS, BLF-12100AS
ENDURA C2 45	45	12	42	BLF-1260AS, BLF-1280AS, BLF-12100AS
ENDURA C2 40	40	12	42	BLF-1260AS, BLF-1280AS, BLF-12100AS
ENDURA C2 30	30	12	30	BLF-1250AS, BLF-1260AS

SPECIALTY TRANS-MOUNT

CAMO 55	55	12	50	BLF-1280AS, BLF-12100AS
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PONTOON TRANS-MOUNT

POWERDRIVE 68/BT	64	24	42	BLF-2450AS
POWERDRIVE 54/BT	54	12	50	BLF-1280AS, BLF-12100AS
PONTOON 70/H	70	24	42	BLF-2450AS
PONTOON 55/H	55	12	50	BLF-1280AS, BLF-12100AS

ELECTRIC OUTBOARD

EO 1HP	1 HP	24	45	BLF-2450AS
EO 1/2HP	1/2 HP	12	52	BLF-1280AS, BLF-12100AS

E-DRIVE

E-DRIVE	2 HP	48	40	BLF-4850AS
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ENGINE MOUNT

MK101/EM	101	36	49	BLF-3630AS, BLF-3650AS
MK80/EM	80	24	58	BLF-2450AS
MK55/EM	22	12	50	BLF-1280AS, BLF-12100AS

*All current Bioenno Power figures represented on this list by their respective manufacturers for current production products only. Legacy products, and other older models which have been discontinued, discontinued and/or replaced as of 5/23/2023 are not represented.
 *Always use proper LiFePO₄ battery model identification for these products as listed by the manufacturer of the trolling motor device securing the boat of the user.



MotorGuide[®]

SALTWATER

MOTORGUIDE (SALTWATER) Trolling Motor model	THRUST Lbs.	VOLTAGE	MAX DRAW Amps	COMPATIBLE MODELS ABS models are listed*
X5 HAND-CONTROL				
X5-80SW HB 50"	80	24	56	BLF-2450AS
X5-80SW HB 60"	80	24	56	BLF-2450AS
X5-105SW HB 50"	105	36	36	BLF-1250AS, BLF-1260AS
X5-105SW HB 60"	105	36	36	BLF-1250AS, BLF-1260AS
X3 HAND-CONTROL				
X3-85SW 50" HB 12V DIGITAL H	55	12	49	BLF-1260AS, BLF-1280AS, BLF-12100AS
X3-70SW 50" HB 12V DIGITAL H	70	24	42	BLF-2450AS
X15 WIRELESS ELECTRIC STEER				
X15-55SW 48" 12V FOB	55	12	52	BLF-1280AS, BLF-12100AS
X15-55SW 54" 12V FOB	55	12	52	BLF-1280AS, BLF-12100AS
X15-55SW 54" 12V GPS	55	12	52	BLF-1280AS, BLF-12100AS
X15-80SW 54" 24V FOB	80	24	56	BLF-2450AS
X15-80SW 60" 24V FOB	80	24	56	BLF-2450AS
X15-80SW 48" 24V GPS	80	24	56	BLF-2450AS
X15-80SW 60" 24V GPS	80	24	56	BLF-2450AS
X15-105SW 54" 36V FOB	105	36	41	BLF-3630AS, BLF-3650AS
X15-105SW 60" 36V FOB	105	36	41	BLF-3630AS, BLF-3650AS
X15-105SW 60" 36V GPS	105	36	41	BLF-3630AS, BLF-3650AS
X15-105SW 72" 36V GPS	105	36	41	BLF-3630AS, BLF-3650AS
X13 WIRELESS ELECTRIC STEER				
X13-55SW 48"	55	12	52	BLF-1280AS, BLF-12100AS
X13-55SW 54"	55	12	52	BLF-1280AS, BLF-12100AS
X13-55SW 48" GPS	55	12	52	BLF-1280AS, BLF-12100AS
X13-55SW 54" GPS	55	12	52	BLF-1280AS, BLF-12100AS
X13-70SW 54"	70	24	42	BLF-2450AS
X13-70SW 60"	70	24	42	BLF-2450AS
X13-70SW 54" GPS	70	24	42	BLF-2450AS
X13-70SW 60" GPS	70	24	42	BLF-2450AS
R5 HAND-CONTROL				
R5-80SW HT 42"	80	24	56	BLF-2450AS
R5-105SW HT 50"	105	36	36	BLF-3630AS, BLF-3650AS
R3 HAND-CONTROL				
R3-45SW HT 18" 12V DIGITAL 0 ⁵	45	12	44	BLF-1260AS, BLF-1280AS, BLF-12100AS
R3-45SW HT 36" 12V DIGITAL 0 ¹	45	12	44	BLF-1260AS, BLF-1280AS, BLF-12100AS
R3-55SW HT 36" 12V DIGITAL 0 ¹	55	12	49	BLF-1260AS, BLF-1280AS, BLF-12100AS

*All current draw figures represented are as listed by their respective manufacturers for current production products only; legacy products, and other older versions which have been depreciated, discontinued and/or replaced as of 06/22/2018 are not represented. Bioenno Power bases the battery model recommendations on the specifications quoted by the manufacturer of the marine application device assuming discharge at the listed draw.

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NOTE: THESE BATTERIES ARE NOT FOR STARTING BOAT ENGINES

MOTOR/QUOTE (FRESHWATER) <small>Weight: Motor Only</small>	THRUST LBS	VOLTAGE	MAX DRAW AMPS	COMPATIBLE MODELS <small>48V: 48V-3000 Series</small>
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X3 FOOT-CONTROL

X3-85FW FB 48" DIGITAL 12V	55	12	52	BLF-1800AS, BLF-1300AS
X3-85FW FB 48" DIGITAL 14V SBR	55	12	52	BL-1300AS, BLF-1300AS
X3-70FW FB 48" DIGITAL 12V	70	24	42	BLF-3400AS
X3-70FW FB 48" DIGITAL 14V SBR	70	24	42	BLF-3400AS
X3-80FW FB 48" DIGITAL 12V	80	24	36	BLF-3400AS
X3-80FW FB 48" DIGITAL 14V SBR	80	24	36	BLF-3400AS
X3-80FW FB 50" DIGITAL 12V	80	24	36	BLF-3400AS
X3-80FW FB 50" DIGITAL 14V SBR	80	24	36	BLF-3400AS
X3-80FW FB 60" DIGITAL 12V	80	24	36	BLF-3400AS
X3-80FW FB 60" DIGITAL 14V SBR	80	24	36	BLF-3400AS
X3-105FW FB 48" DIGITAL 14V SBR	105	36	36	BLF-3400AS, BLF-3400AS
X3-105FW FB 48" DIGITAL 14V SBR	105	36	36	BLF-3400AS, BLF-3400AS
X3-105FW FB 50" DIGITAL 14V SBR	105	36	36	BLF-3400AS, BLF-3400AS
X3-105FW FB 50" DIGITAL 14V SBR	105	36	36	BLF-3400AS, BLF-3400AS
X3-105FW FB 60" DIGITAL 14V SBR	105	36	36	BLF-3400AS, BLF-3400AS
X3-105FW FB 60" DIGITAL 14V SBR	105	36	36	BLF-3400AS, BLF-3400AS

X3 HAND-CONTROL

X3-80FW HB 50" DIGITAL 14V	80	24	36	BLF-3400AS
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X3 FOOT-CONTROL

X3-45FW 34" 12V	45	12	39	BLF-1800AS, BLF-1300AS
X3-45FW 45" 12V	45	12	39	BLF-1800AS, BLF-1300AS
X3-45FW 45" 12V	45	12	39	BLF-1800AS, BLF-1300AS
X3-45FW 34" 12V	55	12	33	BLF-1800AS, BLF-1300AS
X3-45FW 45" 12V	55	12	33	BLF-1800AS, BLF-1300AS
X3-45FW 60" 12V	55	12	33	BLF-1800AS, BLF-1300AS
X3-70FW 45" 14V	70	24	42	BLF-3400AS
X3-70FW 60" 14V	70	24	42	BLF-3400AS
X3-85FW 34" 12V DIGITAL	55	12	33	BLF-1800AS, BLF-1300AS
X3-85FW 45" 12V DIGITAL	55	12	33	BLF-1800AS, BLF-1300AS
X3-85FW 60" 12V DIGITAL	70	24	42	BLF-3400AS

X3 HAND-CONTROL

X3-45FW 30" HB 12V HAND	45	12	44	BLF-1800AS, BLF-1300AS, BLF-1300AS
X3-45FW 30" HB 12V HAND	55	12	43	BLF-1300AS, BLF-1300AS, BLF-1300AS
X3-45FW 30" HB 12V HAND DIGITAL	55	12	49	BLF-1300AS, BLF-1300AS, BLF-1300AS
X3-45FW 30" HB 12V DIGITAL PONTON	55	12	49	BLF-1300AS, BLF-1300AS, BLF-1300AS
X3-70FW 30" HB 14V HAND	70	24	42	BLF-3400AS
X3-70FW 30" HB 14V DIGITAL PONTON	70	24	42	BLF-3400AS
X3-70FW 30" HB 14V DIGITAL	70	24	42	BLF-3400AS

X3 WIRELESS ELECTRIC STEER

X3-85FW 45" 12V FP SBR OPS	55	12	52	BLF-1800AS, BLF-1300AS
X3-85FW 48" 12V FP	55	12	52	BLF-1800AS, BLF-1300AS
X3-85FW 48" 12V FP SBR OPS	55	12	52	BLF-1800AS, BLF-1300AS
X3-85FW 34" 12V FP	55	12	33	BLF-1800AS, BLF-1300AS
X3-85FW 45" 12V FP SBR OPS	55	12	52	BLF-1800AS, BLF-1300AS
X3-80FW 45" 14V FP	80	24	36	BLF-3400AS
X3-80FW 50" 14V FP SBR OPS	80	24	36	BLF-3400AS
X3-80FW 60" 14V FP	80	24	36	BLF-3400AS
X3-80FW 60" 14V FP SBR OPS	80	24	36	BLF-3400AS
X3-105FW 48" 14V FP SBR OPS	105	36	41	BLF-3400AS, BLF-3400AS
X3-105FW 48" 14V FP	105	36	41	BLF-3400AS, BLF-3400AS
X3-105FW 50" 14V FP SBR OPS	105	36	41	BLF-3400AS, BLF-3400AS
X3-105FW 60" 14V FP	105	36	41	BLF-3400AS, BLF-3400AS
X3-105FW 60" 14V FP SBR OPS	105	36	41	BLF-3400AS, BLF-3400AS
X3-105FW 72" 14V FP SBR OPS	105	36	41	BLF-3400AS, BLF-3400AS

X3 WIRELESS ELECTRIC STEER

X3-45FW 48" PONTON	55	12	39	BLF-1800AS, BLF-1300AS
X3-45FW 48" PONTON	55	12	39	BLF-1800AS, BLF-1300AS
X3-45FW 48" OPS	55	12	33	BLF-1800AS, BLF-1300AS
X3-45FW 48" OPS	55	12	33	BLF-1800AS, BLF-1300AS
X3-45FW 54" SBR	55	12	33	BLF-1800AS, BLF-1300AS
X3-45FW 54" SBR/OPS	55	12	33	BLF-1800AS, BLF-1300AS
X3-45FW 64" SBR/OPS	55	12	33	BLF-1800AS, BLF-1300AS
X3-45FW 64"	55	12	33	BLF-1800AS, BLF-1300AS
X3-45FW 48" PONTON	68	24	42	BLF-3400AS
X3-70FW 54" SBR	70	24	42	BLF-3400AS
X3-70FW 54" SBR	70	24	42	BLF-3400AS
X3-70FW 60" SBR	70	24	42	BLF-3400AS
X3-70FW 60" SBR/OPS	70	24	42	BLF-3400AS
X3-70FW 60" SBR/OPS	70	24	42	BLF-3400AS
X3-70FW 60"	70	24	42	BLF-3400AS

R5 HAND-CONTROL

R5-70FW HT 42" 14V	70	24	42	BLF-3400AS
R5-80FW HT 42" 14V	80	24	36	BLF-3400AS
R5-105FW HT 42" 14V	105	36	36	BLF-3400AS, BLF-3400AS

R5 HAND-CONTROL

R5-30 HT 30" 12V 0SMT	30	12	24	BLF-1800AS, BLF-1300AS
R5-40 HT 36" 12V 0SMT	40	12	43	BLF-1300AS, BLF-1300AS, BLF-1300AS
R5-40 HT 36" 12V DIGITAL 0SMT	40	12	43	BLF-1300AS, BLF-1300AS, BLF-1300AS
R5-45 HT 36" 12V 0SMT	45	12	44	BLF-1300AS, BLF-1300AS, BLF-1300AS
R5-45 HT 36" 12V DIGITAL 0SMT	45	12	44	BLF-1300AS, BLF-1300AS, BLF-1300AS
R5-45 HT 36" 12V 0SMT	55	12	49	BLF-1300AS, BLF-1300AS, BLF-1300AS
R5-45 HT 36" 12V DIGITAL 0SMT	55	12	49	BLF-1300AS, BLF-1300AS, BLF-1300AS
R5-45 HT 42" 12V DIGITAL 0SMT	55	12	49	BLF-1300AS, BLF-1300AS, BLF-1300AS
R5-45 HT 42" 12V DIGITAL 0SMT	55	12	49	BLF-1300AS, BLF-1300AS, BLF-1300AS

R5 BULLDOO FOOT-CONTROL

BULLDOO 48 30" 0SMT	40	12	38	BLF-1800AS, BLF-1300AS
BULLDOO 48 30" 0SMT	54	12	38	BLF-1800AS, BLF-1300AS

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NOTES

Marine



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