



## Stop Dragging That Lead Weight Around!

**Ballistic has the lighter, more powerful high-tech battery you've been looking for.**

- + Up to 80% smaller than the stock battery.
- + Up to 10lbs Lighter than the stock battery.
- + Service life of over twice a lead acid in similar conditions.
- + Industry leading 3 Year Warranty.
- + Designed, developed, and assembled in the USA.
- + Hard mounted brass terminals for a direct replacement installation.
- + Completely "dry" technology so batteries can be mounted in any direction.
- + Non-toxic and recyclable.
- + Applications for powersports vehicles from 50cc to 1800cc
- + Tested extensively by professional race teams.
- + Impact and water resistant.
- + No special charger required.
- + No trickle charger required, loses only 10% of charge over a year of static use.

Ballistic Performance Component Batteries use the latest, state of the art lithium ferrous phosphate (LiFePO<sub>4</sub>) energy storage technology available to provide you with a smaller, lighter, higher energy battery. Each Ballistic Performance Component Battery is assembled by hand in the USA using computer designed custom cells, cases, and hardware. As a result, Ballistic Performance Component Batteries will provide more energy out of a smaller package while requiring almost no regular maintenance and under most conditions a service life of twice an existing lead acid battery.

### **Ballistic Performance Components Battery Management System Charger      Retail \$79.99**

Part number: 3807-0104 (220V: 3807-0105)

The Primary advantage of the Ballistic Performance Components EVO2 Battery Management System Charger is the balance charging function. The Balance mode balances the voltage of each cell or cell pack while charging. By balance charging your EVO2 Battery you insure that the battery is operating at its maximum power. Periodic balance charging can also double the expected life of your battery.

- The only charger made to work with the EVO2 Battery Management System.
- Plugs directly into the battery's BMS port.
- Able to balance charge all the cells individually for max power and durability.
- Can double the expected life of the EVO2 battery.
- Has Charge, Fast Charge, Balance Charge, and Storage Charge Functions.
- Available in 120V (US) and 220V (EUR).

### **EVO2 50      retail \$54.95**

Part number: 2113-0257  
Dimensions: 50MM (L) x 50MM (W) x 82MM (H)  
Positive Terminal Location: Left  
Weight: 195 grams, .5 lb  
Voltage (Charged): 13.6V  
Amperage: 4 Pbeq Ah  
Cold Cranking Amps: 80 CCA  
Typical Applications: 50cc and under motorcycles, scooters and ATVs.

### **4 Cell EVO2      retail \$109.95**

Part number: 2113-0258  
Dimensions: 60MM (L) x 60MM (W) x 103MM (H)  
Positive Terminal Location: Left  
Weight: 400 grams, .885 lb.  
Voltage (Charged): 13.6V  
Amperage: 8 Pbeq Ah  
Cold Cranking Amps: 135 CCA  
Typical Applications: 550cc and under motorcycles, scooters and ATVs.

### **8 Cell EVO2      retail \$174.95**

Part number: 2113-0259  
Dimensions: 112MM (L) x 60MM (W) x 103MM (H)  
Positive Terminal Location: Left  
Weight: 825 grams, 1.81 lb  
Voltage (Charged): 13.6V  
Amperage: 15 Pbeq Ah  
Cold Cranking Amps: 275 CCA  
Typical Applications: 1000cc and under motorcycles, scooters and ATVs, and 450cc racing singles.

### **12 Cell EVO2 (12 Cell EVO2 L)      retail \$204.95**

Part number: 2113-0260 (EVO2 L: 2113-0265)  
Dimensions: 112MM (L) x 86MM (W) x 103MM (H)  
Positive Terminal Location: Left (Right)  
Weight: 1100 grams, 2.5 lb  
Voltage (Charged): 13.6V  
Amperage: 20 Pbeq Ah  
Cold Cranking Amps: 410 CCA  
Typical Applications: 1000cc and over motorcycles, scooters and ATVs.

### **16 Cell EVO2      retail \$289.95**

Part number: 2113-0261  
Dimensions: 112MM (L) x 112MM (W) x 103MM (H)  
Positive Terminal Location: Right  
Weight: 1350 grams, 3 lb  
Voltage (Charged): 13.6V  
Amperage: 28 Pbeq Ah  
Cold Cranking Amps: 500 CCA  
Typical Applications: Large Harleys, 1500cc and up 4 cylinders.

Now Available From:



## FAQs

### **Q. What type of cell technology do Ballistic Performance Components Batteries use?**

Ballistic Performance Components EVO2 Batteries use custom designed lithium ferrous phosphate (LiFePO<sub>4</sub>) cells. These cells were designed specifically to start a powersports vehicle. The chemistry was originally discovered by John Goodenough's research group at the University of Texas in 1996. Because of its relatively low cost, non-toxicity, excellent thermal stability, safety characteristics, good electrochemical performance, and high specific capacity it is the perfect chemistry for powersports applications. Simply, LiFePO<sub>4</sub> cells can deliver an enormous amount of power over a very short time and then recover very quickly.

### **Q. Why are Ballistic Performance Components batteries different from other lithium based other batteries?**

The Ballistic Performance Components EVO2 battery uses custom made proprietary cells, cases, and connectors that are made specifically for the purpose of starting powersports vehicles. This is not a collection of generic commercially available parts wrapped in shrink wrap. This is a purpose built product designed, engineered, and assembled in the USA by an American company with over 20 years of professional motorcycle racing and manufacturing experience. We have made significant investments in materials, production capacity, and engineering that allow us to sell a lighter, smaller, more powerful battery at a better price and at the same time offering an exceptional 3 year warranty.

### **Q. Is a Ballistic Performance Component EVO2 Battery a direct OEM replacement for my stock battery?**

No. A Ballistic Performance Components EVO2 Battery is significantly smaller and lighter than the OEM battery. We supply foam in the packaging to make up the difference between the size of the battery and the size of the OEM battery box, but some modification may still be required. All equivalency charts and applications guides are based strictly on battery performance, not size or terminal location.

### **Q. How do you compare lithium amp/hour and cold cranking amp ratings to traditional lead acid ratings?**

The primary job of a battery in a powersports application is to deliver a large amount of energy in a short period of time and then recover. This is what lithium ferrous phosphate technology does best and this why they can be made so much smaller and lighter than the lead-acid equivalent.

Lead-acid battery manufacturers have been using Amp-Hour (Ah) ratings for years to indicate the cranking ability of their batteries. The Amp-Hour rating is a measure of how long a battery can deliver a specific current over the course of 60 minutes at a low discharge rate. This rating has little to do with how a battery will actually start a vehicle. Because the rating itself is based on a complete discharge, under actual conditions the lead acid battery will deliver much less than the amp-hour rating. As a lead-acid battery discharges it begins to sulfate and its internal resistance increases. Also, discharging any battery to a complete discharge will damage it permanently.

A Ballistic Performance Components EVO2 battery will operate completely different. EVO2 batteries have significantly less internal resistance so they are able to discharge more of their capacity and still remain usable. Because the usable capacity is much greater than an equivalent lead-acid, a 6.9Ah 12 Cell EVO2 is on par with a 20Ah lead acid battery in actual performance.

Cold cranking amp (CCA) ratings for lead-acid batteries are deceiving as well. CCA specs are based on amps delivered at zero degrees Fahrenheit at half nominal voltage (14.4V). This isn't a very useful rating as 7.2volts will not start a vehicle. What really starts a vehicle is current multiplied by available voltage (Watts) and once again, because a EVO2 has so much less internal resistance it is able to deliver more voltage for a given amp draw at any temperature, and thus more usable starting power.

### **Q. Do I need a special charger or can I use a standard automotive based charger?**

No, you do not need a special charger. By far the best option for charging your Ballistic Performance Components EVO2 battery is the Ballistic BMS Charger, but it is not required. Any automotive-based charger is acceptable to recharge your Ballistic Performance Components Battery as long as it charges at least 2amps for a slow charge or 10 – 20amps for a fast charge. If you are using an automatic charge, be sure that it is not used in desulfication mode designed for lead-acid batteries, this will damage the cells.

Ballistic Performance Components batteries are very different from traditional lead acid batteries and do not require regular maintenance charging. Ballistic Performance Components batteries will lose less than 10% of their total charge over a 12 month period of static use, so a trickle charger is not required or recommended, but you can

use a Battery Tender® to charge your battery in the 2amp setting. Ballistic Performance Components batteries are compatible with your vehicle's charging system and can be used in a "total loss" racing application. Please refer to the detailed charging instructions included with your battery or the charging instructions located at: <http://www.ballisticparts.com/tech/charging.html>.

When charging a Ballistic Performance Component Battery with a traditional automotive or motorcycle based external charging device, the following input specifications must be adhered to:

Standard Charge: 2A @ 13.8-14.4V for approximately 45 minutes or until the battery registers 14.4V.

Maximum Charge Rate for Standard Automotive-based Charger:

EVO2 50 Battery (2113-0257) – 5A @ 13.8-14.4V for 15 minutes or until the battery registers 14.4V.

4 Cell EVO2 (2113-0258) – 10A @ 13.8-14.4V for 15 minutes or until the battery registers 14.4V.

8 Cell EVO2 (2113-0259) – 20A @ 13.8-14.4V for 15 minutes or until the battery registers 14.4V.

12 Cell EVO2 (2113-0260 and 2113-0265) – 20A @ 13.8-14.4V for 15 minutes or until the battery registers 14.4V.

16 Cell EVO2 (2113-0261) – 20A @ 13.8-14.4V for 15 minutes or until the battery registers 14.4V.

### **Q. What is different about the Ballistic Performance Components BMS (Battery Management System) Charger?**

The primary advantage to the Ballistic Performance Components BMS (Battery Management System) Charger is the balance charging function. The balance charging mode balances the voltage of each cell or cell pack individually using the Ballistic BMS port on 2011 and up EVO2 batteries. By balance charging your Ballistic Performance Components Battery you insure that the battery is operating at its maximum power. Periodic balance charging can also double the expected life of your battery.

In order to balance charge your EVO2 battery you must connect the supplied BMS cable to the BMS port on the top of the battery along with the positive and negative leads from the charger. The BMS cable lead should connect to the individual port at the right side of the charger.

In this mode the built-in processor monitors the voltage of individual cells and controls input current fed into each cell to normalize the voltage.

The BMS port is a feature only included in the latest 2011 version of the EVO2 battery. If you have an older Ballistic Performance Components Battery, a standard automotive based charger is your best choice.

### **Q. Do I need to use a Battery Tender®?**

The answer is no you do not need to use a Battery Tender®, but you can. Because of the high discharge rate of a lead-acid battery they require a regular maintenance charge in order to remain functioning. A Ballistic Performance Components Battery only discharges at a rate of 10% per year of static use compared to a discharge rate of almost 1% per day of a traditional lead-acid battery, and thus they require no maintenance charge. If you wish to use a Battery Tender®, it will not hurt the battery as long as it has an auto shut off at 14.4volts. Overcharging any battery will cause it to fail.

### **Q. Do these batteries contain any liquid that can leak out?**

No, the chemistry is a solid so there isn't any acid to leak out and damage your vehicle. Because the chemistry is a solid, the battery can be mounted in any direction and there are no worries about lead plates cracking from vibration.

### **Q. How long should a Ballistic Performance Components EVO2 Battery last?**

There are several factors that affect the life of a battery. Weather, temperature, recharge cycles, charging method, vibration and duration of static use can all have dramatic effects on battery life. A EVO2 battery should last twice as long as lead-acid used in similar conditions. The Ballistic EVO2 can last even longer when it is charged and maintained with a Ballistic BMS charger.

### **Q. Can I use the battery in an application other than in a powersports vehicle?**

Yes. These batteries are designed and developed to be used for powersports applications, but they may be useful for many other applications. However, our warranty only extends to appropriate powersports applications.

# **BALLISTIC**

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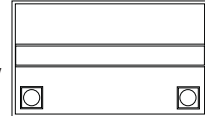
CROSS REFERENCE

INDEX

## EVO2 12V LiFePO4 MOTORCYCLE BATTERIES

- Up to 80% smaller than the stock battery
- Up to 10 lb. lighter than the stock battery
- Over twice the service life of lead acid batteries
- Hard-mounted brass terminals for easy installation
- Completely "dry" technology so batteries can be mounted in any direction
- Non-toxic and recyclable
- Applications for powersports vehicles from 50cc to 1800cc
- Tested extensively by professional race teams
- Impact- and water-resistant
- Lose only 10% of charge over a year of static use
- Can be easily charged with the optional battery charger (PART #3807-0104) that plugs directly into the BMS port on the top of the battery
- Designed, developed, and assembled in the U.S.A.

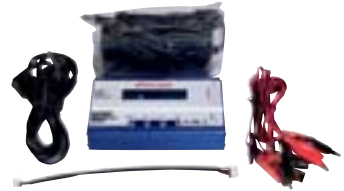
**NOTE: Below is a suggested application listing for Yuasa AGM cross-reference. All application suggestions are based on battery power and functionality. EVO2 batteries can be significantly smaller than OEM or Yuasa AGM batteries and some modification may be required. There are many variables that may make the application chart below invalid such as engine modifications, additional electrical accessories, or riding conditions.**



PART #	# OF CELLS	COLD CRANKING AMPS (CCA)	AMP HOUR (PBEQ/AH)	DIMENSIONS	WEIGHT (LB)	LEFT POST	RIGHT POST	SUG. RETAIL
<b>2113-0257</b>	4	80	4	2" L x 2" W x 3.25" H (scooter)	0.5	+	-	<b>\$54.95</b>
<b>2113-0258</b>	4	135	8	2.5" L x 2.5" W x 4.25" H	0.9	+	-	<b>109.95</b>
<b>2113-0259</b>	8	275	15	4.5" L x 2.3" W x 4.25" H	1.8	+	-	<b>174.95</b>
<b>2113-0260</b>	12	410	20	4.5" L x 3.5" W x 4.25" H	2.6	+	-	<b>204.95</b>
<b>2113-0265</b>	12	410	20	4.5" L x 3.5" W x 4.25" H	2.6	-	+	<b>204.95</b>
<b>2113-0261</b>	16	500	28	4.5" L x 4.5" W x 4.25" H	3.4	-	+	<b>289.95</b>

### CROSS-REFERENCE

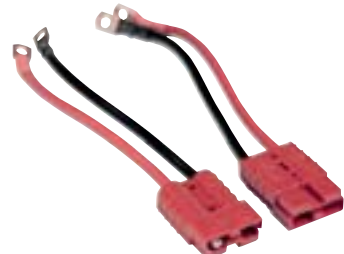
YUASA #	BALLISTIC EQUIVALENT	PART #	YUASA #	BALLISTIC EQUIVALENT	PART #	YUASA #	BALLISTIC EQUIVALENT	PART #	YUASA #	BALLISTIC EQUIVALENT	PART #
GYZ20HL	16 cell	2113-0261	YB14A-A1	8 cell	2113-0259	YB4L-B	Scooter	2113-0257	YTX14H-BS	8 cell	2113-0259
GYZ20L	16 cell	2113-0261	YB14A-A2	8 cell	2113-0259	YB5L-B	Scooter	2113-0257	YTX14L-BS	8 cell	2113-0259
HYB16A-AB	12 cell	2113-0260	YB14-B2	8 cell	2113-0259	YB7-A	4 cell	2113-0258	YTX15L-BS	8 cell	2113-0259
KMX14-BS	8 cell	2113-0259	YB14L-A1	8 cell	2113-0259	YB7C-A	4 cell	2113-0258	YTX16-BS	8 cell	2113-0259
SYB14L-A2	8 cell	2113-0259	YB14L-A2	8 cell	2113-0259	YB7L-B	4 cell	2113-0258	YTX16-BS-1	8 cell	2113-0259
SYB14L-B2	8 cell	2113-0259	YB14L-B2	8 cell	2113-0259	YB9A-A	8 cell	2113-0259	YTX16L-BS	8 cell	2113-0259
SYB16L-B	12 cell neg L	2113-0265	YB16AL-A2	12 cell	2113-0260	YB9-B	8 cell	2113-0259	YTX20-BS	12 cell	2113-0260
Y50-N18A-A	16 cell	2113-0261	YB16-B	12 cell	2113-0260	YB9L-A2	8 cell	2113-0259	YTX20CH-BS	12 cell	2113-0260
Y50-N18L-A	16 cell	2113-0261	YB16B-A	12 cell	2113-0260	YB9L-B	8 cell	2113-0259	YTX20H-BS	12 cell	2113-0260
Y50-N18L-A3	16 cell	2113-0261	YB16B-A1	12 cell	2113-0260	YIX30L-BS	16 cell	2113-0261	YTX20HL-BS	12 cell neg L	2113-0265
Y60-N24-A	16 cell	2113-0261	YB16-B-CX	12 cell	2113-0260	YMF14L-2	8 cell	2113-0259	YTX20HL-BS-PW	16 cell	2113-0261
Y60-N24AL-B	16 cell	2113-0261	YB16C-B	12 cell	2113-0260	YT12A-BS	8 cell	2113-0259	YTX20L-BS	12 cell neg L	2113-0265
YB10A-A2	8 cell	2113-0259	YB16CL-B	12 cell neg L	2113-0265	YT12B-BS	8 cell	2113-0259	YTX24HL-BS	16 cell	2113-0261
YB10L-A2	8 cell	2113-0259	YB16HL-A-CX	12 cell neg L	2113-0265	YT14B-BS	8 cell	2113-0259	YTX4L-BS	Scooter	2113-0257
YB10L-B	8 cell	2113-0259	YB16L-B	12 cell neg L	2113-0265	YT4B-BS	Scooter	2113-0257	YTX5L-BS	4 cell	2113-0258
YB10L-B2	8 cell	2113-0259	YB18-A	12 cell	2113-0260	YT7B-BS	4 cell	2113-0258	YTX7A-BS	4 cell	2113-0258
YB12A-A	8 cell	2113-0259	YB18L-A	12 cell	2113-0260	YT9B-BS	4 cell	2113-0258	YTX7L-BS	4 cell	2113-0258
YB12A-B	8 cell	2113-0259	YB2.5L-C	Scooter	2113-0257	YTR4A-BS	Scooter	2113-0257	YTX9-BS	8 cell	2113-0259
YB12AL-A	8 cell	2113-0259	YB2.5L-C-1	Scooter	2113-0257	YTX12-BS	8 cell	2113-0259	YTZ10S	8 cell	2113-0259
YB12B-B2	8 cell	2113-0259	YB3L-A	Scooter	2113-0257	YTX14AH-BS	8 cell	2113-0259	YTZ12S	8 cell	2113-0259
YB12C-A	8 cell	2113-0259	YB3L-B	Scooter	2113-0257	YTX14AHL-BS	8 cell	2113-0259	YTZ14S	8 cell	2113-0259
YB14-A2	8 cell	2113-0259	YB4L-A	Scooter	2113-0257	YTX14L-BS	8 cell	2113-0259	YTZ7S	8 cell	2113-0259



### EVO2 LiFePO4 BATTERY CHARGER

- Designed to work with the EVO2 LiFePO4 batteries
- Plugs directly into the battery's BMS port
- Produces balanced charge to all the cells individually for max power and durability
- Can double the expected life of the EVO2 battery
- Features Charge, Fast Charge, Balance Charge and Storage Charge functions
- 120V input

**SUG. RETAIL ..... \$84.95**  
**PART # 3807-0104**



### EVO2 LiFePO4 BATTERY QUICK-DISCONNECT KIT

- Designed to allow removal of the battery from the bike quickly and easily
- Perfect for bikes with a large parasitic draw or racing vehicles that use a total loss system
- Kit includes two 8-gauge cables with quick-disconnect connectors

**SUG. RETAIL ..... \$54.95**  
**PART # 2113-0262**



### EVO2 LiFePO4 BATTERY EXTENSION KIT

- Because of the dramatic size differences that can exist between the OEM battery and the EVO2 LiFePO4 battery equivalent, cable extension kit may come in handy in some applications
- Pre-made 8-gauge cables with terminal ends 5" long

**SUG. RETAIL ..... \$10.95**  
**PART # 2113-0263**



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2113-0260

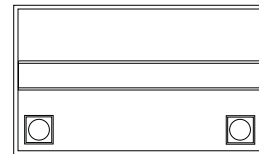


2113-0261

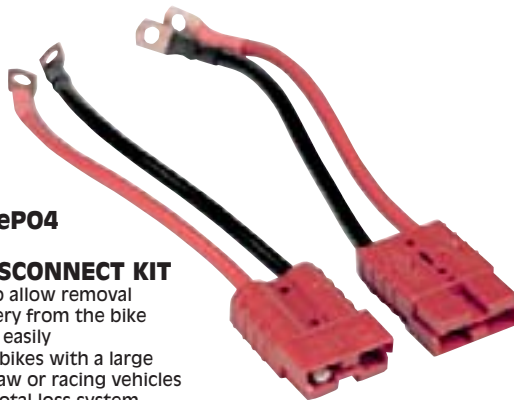
**EVO2 12V LiFePO4 MOTORCYCLE BATTERIES**

- Up to 80% smaller than the stock battery
- Up to 15 lb. lighter than the stock battery
- Over twice the service life of lead acid batteries
- Hard-mounted brass terminals
- Completely "dry" technology so batteries can be mounted in any direction
- Non-toxic and recyclable
- PART #2113-0260 puts out as much power as some of the biggest lead acid batteries on the market
- PART #2113-0261 is designed for the most demanding cranking-power applications
- Tested extensively by professional race teams
- Impact- and water-resistant
- Loses only 10% of charge over a year of static use
- Can be easily charged with the optional battery charger (PART #3807-0104) that plugs directly into the BMS port on the top of the battery
- Designed, developed, and assembled in the U.S.A.

**NOTE:** Batteries are smaller than OEM batteries and may require spacers and shims to properly install and secure.



PART #	COLD CRANKING AMPS (CCA)	AMP HOUR (AH)	DIMENSIONS	WEIGHT (LB)	LEFT POST	RIGHT POST	SUG. RETAIL
2113-0260	410	20	(12 cell) 4.5" L x 3.5" W x 3.5" H	2.5	+	-	\$204.95
2113-0265	410	20	(12 cell) 4.5" L x 3.5" W x 3.5" H	2.5	-	+	204.95
2113-0261	500	28	(16 cell) 4.5" L x 4.5" W x 3.5" H	3	-	+	289.95



**EVO2 LiFePO4 BATTERY QUICK-DISCONNECT KIT**

- Designed to allow removal of the battery from the bike quickly and easily
- Perfect for bikes with a large parasitic draw or racing vehicles that use a total loss system
- Kit includes two quick-disconnect connectors

PART #	DESCRIPTION	SUG. RETAIL
2113-0262	EVO2 LiFePO4 battery quick-disconnect kit	\$54.95



**EVO2 LiFePO4 BATTERY FL FOAM ADAPTER**

- The OEM battery for the H-D FL series of motorcycles is much larger than its EVO2 16-cell equivalent (PART #2113-0261)
- Inexpensive kit allows EVO2 16-cell (PART #2113-0261) to fit into the FL battery box
- Features pre-made, chemical- and heat-resistant foam

PART #	DESCRIPTION	SUG. RETAIL
2113-0264	EVO2 Li-ion battery FL foam adapter	\$10.95



**EVO2 LiFePO4 BATTERY EXTENSION KIT**

- Because of the dramatic size differences that can exist between the OEM battery and the EVO2 LiFePO4 battery equivalent, cable extension kit may come in handy in some applications
- Pre-made cables with terminal ends
- 5" long

PART #	DESCRIPTION	SUG. RETAIL
2113-0263	EVO2 LiFePO4 battery extension kit	\$10.95

All part numbers in **BLUE** are new for 2012.