

# AKIYO™

PRODUCT  
CATALOGUE



[www.alfworld.com](http://www.alfworld.com)

The AKIYO logo is centered in the image. It features the word "AKIYO" in a bold, orange, sans-serif font, with a small "TM" trademark symbol to the upper right of the "O". The background consists of a light blue wireframe grid of skyscrapers, with a white sky in the center. There are decorative geometric shapes in blue and orange in the corners: a blue triangle in the top-left and a blue and orange shape in the bottom-right.

A perspective towards a sustainable future  
Powering lives and technology through energy  
Providing the best in class service to our customers  
Delivering energy storage for building a powerful future

## Vision

To be one of the leading and a globally respected corporation that provides the best in class Quality and Service of Batteries.

## Mission

To achieve our objectives in an environment of fairness, honesty, and courtesy towards our clients, employees, vendors, stakeholders and society.

## Values & Philosophy

1. Excellence in Quality and Service.
2. Customer Delight by surpassing customer expectations.
3. Ethical and Fairness in our dealing with our customers, vendors, employees, government and associates.
4. People Driven: A corporation, which revolves around People.
5. Best Practices: Follow the best practices and standards there by being an exemplar for the industry.



**EXCELLENCE**  
in Quality and Service.



PREMIUM QUALITY  
HIGH PERFORMANCE  
EMT TECHNOLOGY

**AKIYO™**





## About us

AlfTechnologies (India) Ltd. With the brand name "AKIYO" is a closely held limited company head quartered in Ahmedabad. The Company is into contract manufacturing and marketing of a wide range of lead-acid batteries on a pan-India level.

The company was incorporated in the year 2010 with a long-term vision of becoming the most respectable and preferred brands in India for lead acid batteries.

The Product Range includes lead acid batteries for car/four wheeler application, tractor and agro-equipment application, Truck and HCV application, Invertors, UPS, Solar and Other Stand-by Power Application and lastly for the motorcycle applications.

The company and its brands have received tremendous response in the last 9 years has successful built on a strong Sales and Service Channel Network of over 3000 Dealers across the world.

The Company is a member of the Prestigious Battery Council International, USA (BCI) that is an apex body of association of the top 50 battery manufacturers of the world. The company is also a member of the Confederation of Indian Industry (CII) and the Society of Automobile Engineers (SAE).

Apart from the above the Company is also an ISO 9001 Certified from TUV South Asia.

**Apart from this the Company is also the India Marketing and Distribution Partner for complete range of "Hitachi" Automotive Batteries.**

We Are Members Of :





Akiyo products are specially designed to provide long life even under tough weather and road conditions. With its powerful R&D team and innovative company culture, while compensating today's requirements at the highest level, Akiyo also improves itself continuously to meet the requirements of the future technologies. Akiyo provides problem-free use and saving for consumers with its long-lasting products. Akiyo batteries are enduring and never let you down, even in difficult conditions.

## Salient Features

### EXPANDED METAL GRID (EMT) :

Plate group with Expanded Metal Grid is designed for:

- Fine uniform surface grain
- Prevents grid surface from corrosion
- Reduces self-discharge by chemical bonding with grains of calcium
- Reduces water loss
- Prevents over-charging



### PREMIUM GRADE ALLOY :

- Premium grade Calcium - Calcium & Hybrid Alloy.
- Ensures better conductivity and extends battery life
- Ensures desired purity to prevent high self-discharge
- Helps to bring water loss down needed for maintenance free batteries



### DOUBLE CHAMBER LID :

- Works as condensation chamber for outgoing water molecules
- Prevents leakage and contamination
- Include permanent flame arresters to prevent accidental explosion from external sparks or flame
- Holds Magic Eye.



### CENTERED CAST-ON-STRAP (COS) PLATE :

- Stronger than thinner gas-burnt conventional connectors
- Reduces lever action movement resulting from road shock
- Resists vibration



### LOW RESISTANCE PE WITH GLASS MAT ENVELOP SEPARATOR :

- Encapsulate positive plates
- Improve vibration durability
- Prevents "Treeing" and internal shorting between positive and negative plate
- Increases current capacity
- Prevents acid stratification



### FLAME ARRESTER :

- Flame arrester prevents accidental explosion from external sparks or flame
- Minimizes acid leakage through side vent
- Prevents inflow of dust



### MAGIC EYE (OPTICAL HYDROMETER) :

- Magic eye helps to understand battery health
- Green - Battery OK
- Black - Recharge
- White - Check



# Akiyo Battery

**Special Valve Plugs Technology**  
Minimizes water loss

**PbSn - PbCa Lead Alloy**  
Maintenance Free

**Special Paste**  
Safe, Long Life

**External Wall Box with Reinforced Polypropylene (PP)**

**Glass Fiber Separators**

Maximum leak proof thanks to acid absorption in special separators

**Full Frame Grids**  
Prevents short circuit risks





## Akiyo Product Range

- **Cars and Light Commercial Vehicles**
  - Absorbed Glass Mat Start- Stop (AGM)
  - Enhanced Flooded Battery Start-Stop (EFB)
  - Sealed Maintenance Free (SMF - JIS)
  - Sealed Maintenance Free (SMF - DIN)
- **Heavy Duty Vehicles**
  - Super Heavy Duty (JIS - CV)
  - Heavy Duty (JIS - TRCT)
- **Motorcycle (Two Wheeler) Vehicles**



 **AGM Range**



 **Prime Range**



 **Rider Plus Range**



 **EFB Range**



 **Dura Range**



 **Rider Range**

## Technical Specifications of Akiyo AGM Product Range

Brand	Series	Factory Code	Part No	AH	RC (Mins)	CCA (Amps)	Dimensions(mm)			Weight (Kgs.)	Pcs/ Pallet
							Length	Width	Height		
<b>Akiyo AGM - Sealed Maintenance Free ( SMF - DIN )</b>											
Akiyo	AGM	L3 070 076 013	A DIN070L	70	117	760	278	175	190	19.4	68
Akiyo	AGM	L5 092 085 013	A DIN092L	92	162	850	353	175	190	24.4	48
Akiyo	AGM	L6 105 085 013	A DIN105L	105	162	850		175	190	27.0	42

## Technical Specifications of Akiyo EFB Product Range

Brand	Series	Factory Code	Part No	AH	RC (Mins)	CCA (Amps)	Dimensions(mm)			Weight (Kgs.)	Pcs/ Pallet
							Length	Width	Height		
<b>Akiyo EFB - Sealed Maintenance Free ( SMF - DIN )</b>											
Akiyo	EFB	LB2 060 056 013	E DIN060LH	60	98	560	242	175	175		72
Akiyo	EFB	L2 060 056 013	E DIN060L	60	98	560	242	175	190	16.9	72
Akiyo	EFB	LB3 065 065 013	E DIN065LH	65	109	650	278	175	175	17.7	63
Akiyo	EFB	L3 072 068 013	E DIN072L	72	121	680	278	175	190	19.6	63
Akiyo	EFB	LB4 075 073 013	E DIN075LH	75	127	730	315	175	175	20.5	72
Akiyo	EFB	L4 080 073 013	E DIN080L	80	137	730	315	175	190	21.4	72
Akiyo	EFB	L5 090 083 013	E DIN090L	90	158	830	353	175	190	23.9	45
Akiyo	EFB	L5 100 092 013	E DIN100L	100	179	920	353	175	190	24.9	45

## Technical Specifications of Akiyo Prime Product Range

Brand	Series	Factory Code	Part No	AH	RC (Mins)	CCA (Amps)	Dimensions(mm) Length   Width   Height			Weight (Kgs.)	Pcs/ Pallet
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### Akiyo Prime - Sealed Maintenance Free ( SMF - JIS )

Akiyo	Prime	NS40 035 030 030-40B19L-NS40 ZL	40B20L	35	52	300	197	129	224	9.3	87
Akiyo	Prime	NS40 035 030 130-40B19R-NS40 Z	40B20R	35	52	300	197	129	224	9.3	87
Akiyo	Prime	NS40 035 030 031-40B19FL	40B20L(BH)	35	52	300	197	129	224	9.3	87
Akiyo	Prime	NS60 045 040 030-NX100-56L-NS60L	55B24L	45	70	400	238	129	224	11.3	72
Akiyo	Prime	NS60 045 040 130-NX100-56-NS60	55B24R	45	70	400	238	129	224	11.3	72
Akiyo	Prime	NS60 045 040 010-NX100-56LS-NS60LS	55B24L(S)	45	70	400	238	129	224	11.3	72
Akiyo	Prime	D23 060 054 011	55D23L	60	98	540	232	173	225	14.1	60
Akiyo	Prime	D23 060 054 111	55D23R	60	98	540	232	173	225	14.1	60
Akiyo	Prime	D23 068 060 011	85D23L	68	114	600	232	173	225	16.1	60
Akiyo	Prime	D23 068 060 111	85D23R	68	114	600	232	173	225	16.1	60
Akiyo	Prime	D26 060 050 017-55D26L-N50ZL	65D26L	60	98	500	264	175	220	15.4	48
Akiyo	Prime	D26 060 050 117-55D26R-N50Z	65D26R	60	98	500	264	175	220	15.4	48
Akiyo	Prime	D26 066 050 017-75D26L-NS70L	70D26L	66	110	500	264	175	220	16.3	48
Akiyo	Prime	D26 066 050 117-75D26R-NS70	70D26R	66	110	500	264	175	220	16.3	48
Akiyo	Prime	D26 072 060 017-90D26L-NX110-5L	85D26L	72	121	600	264	175	220	16.5	48
Akiyo	Prime	D26 072 060 117-90D26R-NX110-5	85D26R	72	121	600	264	175	220	16.5	48
Akiyo	Prime	D31 090 075 011-105D31L-NX120-7L	105D31L	90	158	750	306	175	224	20.8	48
Akiyo	Prime	D31 090 075 111-105D31R-NX120-7	105D31R	90	158	750	306	175	224	20.8	48

### Akiyo Prime - Sealed Maintenance Free ( SMF - DIN )

Akiyo	Prime	LB1 036 030 013	DIN35LH	36	54	300	207	175	175	10.6	96
Akiyo	Prime	LB1 044 036 013	DIN44LH	44	68	360	207	175	175	10.9	96
Akiyo	Prime	L1 044 036 013	DIN44L	44	68	360	207	175	190	11.4	96
Akiyo	Prime	L1 052 045 013	DIN50L	52	79	450	207	175	190	12.5	96
Akiyo	Prime	L2 055 046 013	DIN55L	55	88	460	242	175	190	13.6	76
Akiyo	Prime	L2 055 046 113	DIN55R	55	88	460	242	175	190	13.6	76
Akiyo	Prime	L2 060 049 013	DIN60L	60	98	490	242	175	190	14.2	76
Akiyo	Prime	LB2 062 054 013	DIN62LH	62	102	540	242	175	175	14.0	76
Akiyo	Prime	LB3 066 064 013	DIN66LH	66	109	640	278	175	175	15.8	68
Akiyo	Prime	L3 066 060 013	DIN66L	66	109	600	278	175	190	16.2	68
Akiyo	Prime	L3 072 068 013	DIN74L	72	122	680	278	175	190	16.7	68
Akiyo	Prime	L3 075 070 013	DIN75L	75	127	700	278	175	190	17.6	68
Akiyo	Prime	L4 082 074 013	DIN80L	82	142	740	315	175	190	19.0	56
Akiyo	Prime	L5 088 072 013	DIN88L	88	154	720	353	175	190	21.4	48
Akiyo	Prime	L5 100 086 013	DIN100L	100	179	860	353	175	190	23.0	48

## Technical Specifications of Akiyo Dura Product Range

Brand	Series	Factory Code	Part No	AH	RC (Mins)	CCA (Amps)	Dimensions(mm)			Weight (Kgs.)	Pcs/ Pallet
							Length	Width	Height		
<b>Akiyo Dura - Super A Heavy Duty</b>											
Akiyo	Dura	D31 080 065 011-95D31L-N70ZL	95D31L	80	138	650	306	175	224	20.3	48
Akiyo	Dura	D31 080 065 111-95D31R-N70Z	95D31R	80	138	650	306	175	224	20.3	48
Akiyo	Dura	TRCT L 090 062 010	TRCT L 090	90	158	620	344	175	225	23.7	36
Akiyo	Dura	TRCT L 105 070 010	TRCT L 105	105	190	700	344	175	225	25.2	36
Akiyo	Dura	TRCT L 105 070 110	TRCT R 105	105	190	700	344	175	225	25.2	36
Akiyo	Dura	A 120 080 310	120F51	120	222	800	513	189	218	35.0	24
Akiyo	Dura	A 120 080 410	120F51	120	223	800	513	189	220	33.8	24
Akiyo	Dura	A 135 088 410	135F51	135	255	880	513	189	220	35.5	24
Akiyo	Dura	B 150 092 310	165G51	150	289	920	513	223	218	42.5	24
Akiyo	Dura	B 150 092 410	165G51	150	290	920	513	223	220	40.8	21
Akiyo	Dura	C 200 105 410	200H52	200	407	1050	513	274	242	54.3	18

## Technical Specifications of Akiyo Rider Product Range

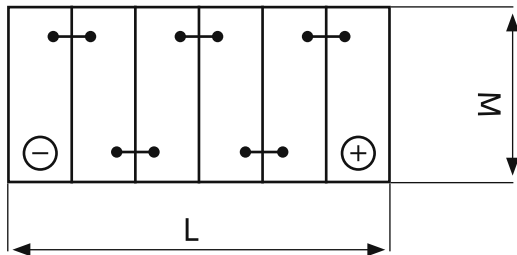
<b>Akiyo Rider - Motorcycle Battery (SMF)</b>											
Akiyo	Rider	YB2.5L-BS (MF)	MC 2.5	2.5	N/A	19	79	70	104	1.1	1260
Akiyo	Rider	YBX4L-BS (MF)	MC Z4	3	N/A	50	113	70	86	1.3	1360
Akiyo	Rider	YBX5L-BS (MF)	MC Z5	4	N/A	70	113	70	105	1.7	1120
Akiyo	Rider	YB5L-BS (MF)	MC 5	5	N/A	65	119	60	129	1.8	1080
Akiyo	Rider	YB7B-BS (MF)	MC 7	7	N/A	75	148	60	128	2.2	792
Akiyo	Rider	YB9B-BS (MF)	MC 9	9	N/A	85	137	76	134	2.8	648
Akiyo	Rider	YB14L-BS (MF)	MC 14	14	N/A	128	134	89	166	4.6	468

## Technical Specifications of Akiyo Rider Plus Product Range

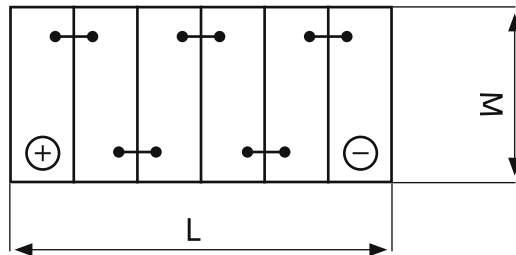
<b>Akiyo Rider Plus - Motorcycle Battery ( Digital Display )</b>											
Akiyo	Rider Plus	YBX4L-BS (DS)	DS Z4	3	N/A	50	113	70	85	1.3	1360
Akiyo	Rider Plus	YBX5L-BS (DS)	DS Z5	4	N/A	70	113	70	107	1.7	1120
Akiyo	Rider Plus	YB5L-BS (DS)	DS 5	5	N/A	65	119	60	129	1.8	1080
Akiyo	Rider Plus	YB7B-BS (DS)	DS 7	7	N/A	75	148	60	128	2.2	792
Akiyo	Rider Plus	YB9B-BS (DS)	DS 9	9	N/A	85	137	76	134	2.8	648
Akiyo	Rider Plus	YB14L-BS (DS)	DS 14	14	N/A	128	132	88	163	4.6	468

# Akiyo Prime / Dura Battery Layout

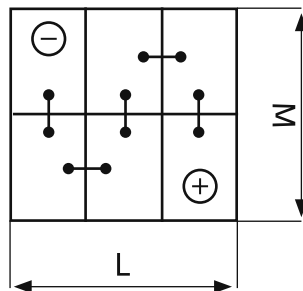
LAYOUT 0



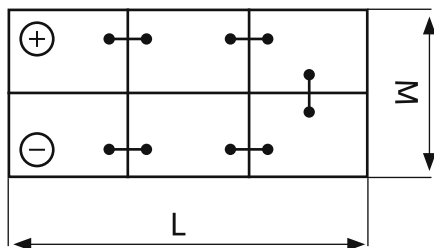
LAYOUT 1



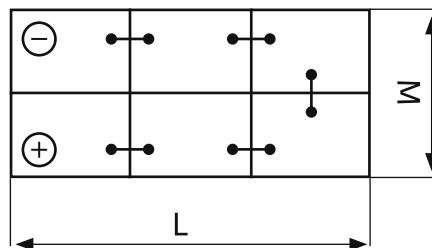
LAYOUT 2



LAYOUT 3

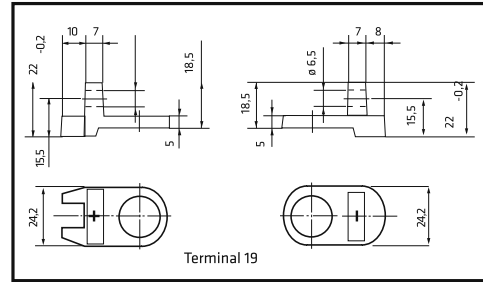
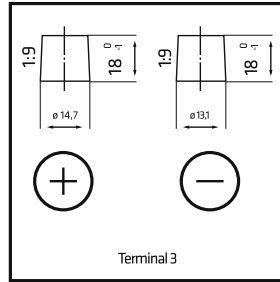
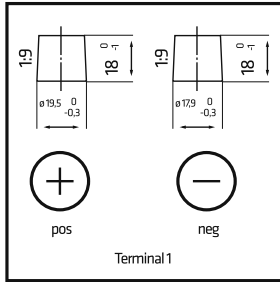


LAYOUT 4

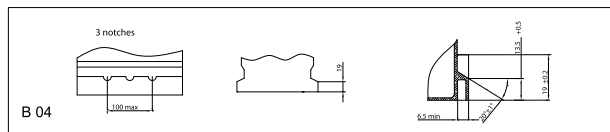
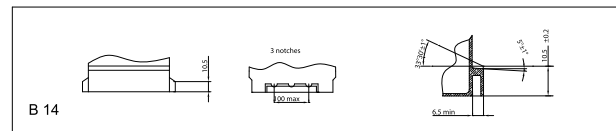
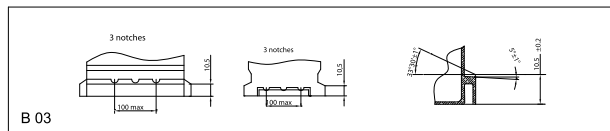
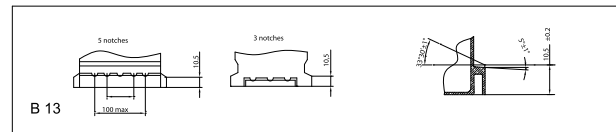
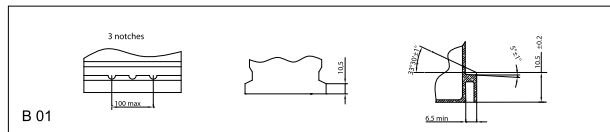
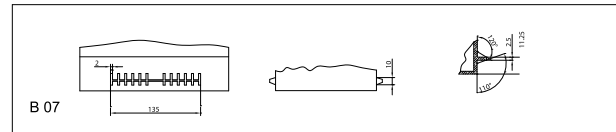
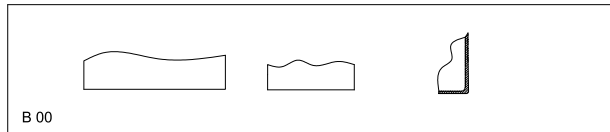




## Akiyo Prime / Dura Battery Terminal Type



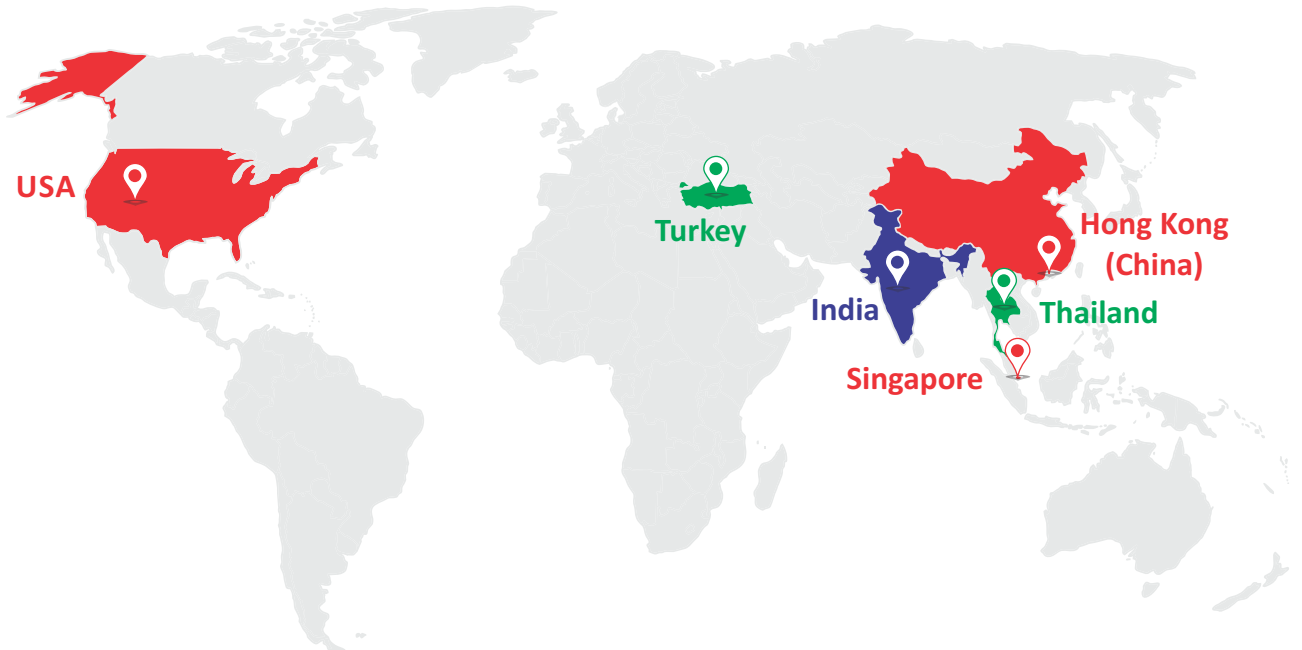
## Akiyo Prime / Dura Battery Holddown Type



## Safety & Installation

- Ensure that the clamps are always firmly tightened.
- Wear safety glasses or goggles and a face shield.
- When placing battery, ensure that it is secured firmly in the cradle. And the battery tray is cleaned properly.
- Make sure work area is well-ventilated.
- Avoid metallic contact across the terminals, as this can result in short circuit and sparking.
- Keep vent caps tight and level.
- Always keep terminals and clamps clean and grease-free and never hammer down the clamps.
- Keep the battery top clean from mud and dust by cleaning with a cloth having little moisture.
- Never lean over battery while boosting, testing or charging.
- Always maintain a clean battery surface, as dust accumulation can cause vent plug blockage.
- Keep the battery out of reach of children.
- In case of heavy mud covering the battery, the top should be cleaned and then vent plug to be opened with a rupee coin and immersed in distilled water to clear the mud. Ensure there is no blockage in the vent plug top.
- Make sure the connecting cables are fixed to the correct poles.
- Do not charge or use booster cables or adjust post connections without proper instructions and training.
- Apply petroleum jelly on the terminal cable clamps but never apply grease.
- Cigarettes, flames or sparks could cause the battery to explode. Keep all ignition sources away from the battery.
- To protect the batteries from damage, recharge at recommended current (amps) only.
- Do not operate or charge battery if electrolyte temperature exceeds 60°C.
- Put the correct capacity of battery in the vehicle to get the best performance.
- Periodically check the voltage regulator output as over and under charging can be harmful to the battery.
- In event of accident, flush with water and call a physician immediately.

# Akiyo Group Global Presence



-  Head Quarter
  -  Representative Offices
  -  Manufacturing Factory
- \* This is our Associate Factories

(Note: World map is only for depiction purpose and not actual political boundaries)



India Head Office

**Alf Technologies (India) Pvt. Ltd.**

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