

# **TURBO** **BATTERY**

## **CATALOGUE**



**⚡ STARTER  
BATTERIES**



**⚡ START-STOP  
BATTERIES**



**⚡ HEAVY DUTY  
BATTERIES**

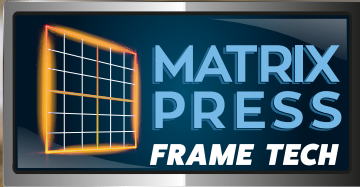


**⚡ MARINE  
BATTERIES**



**Hit The Road**

# STARTER BATTERIES



**TURBO**  
BATTERY

Starter batteries, which are the most common use type of lead-acid flooded batteries, are conventional automobile batteries.

The AKO starter battery has been specially designed to meet all the electrical requirements of vehicles.

Specially to give an engine its first move with an instantaneous high power load lasting for a few seconds

Starter batteries produced with designed Matrix Press grids; It also provides power for equipments that require stable energy such as lighting and media devices of vehicles.

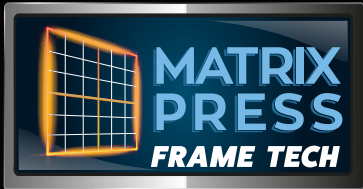
Starter batteries can be produced with two different cover designs according to customer request;

- Sealed Maintenance Free (SMF), those that do not require the addition of water or acid
- Maintenance Free (MF), those that require the addition of water and acid



Codes	Type	BCI Type	Box Type	Ah	CCA EN (-18°C)	CCA SAE (0°F)	Reserve Capacity	Dimensions			Layout	Hold Down	Terminal	Truck Pallet	Container Pallet
								Length (a)	Width (b)	Height (c)					
SMF-40B19FL	B19	N/A	B19 / NS40	30	240	260	43	197	129	227	0	B01	B	116	174
SMF-40B19FR		N/A	B19 / NS40	30	240	260	43	197	129	227	1	B01	B	116	174
SMF-40B19LS		N/A	B19 / NS40	30	240	260	43	197	129	227	0	B0	A	116	174
SMF-40B19RS		N/A	B19 / NS40	30	240	260	43	197	129	227	1	B0	A	116	174
SMF-40B19L		N/A	B19 / NS40	30	240	260	43	197	129	227	0	B0	B	116	174
SMF-40B19R		N/A	B19 / NS40	30	240	260	43	197	129	227	1	B0	B	116	174
SMF-42B19L		N/A	B19 / NS40	35	280	330	52	197	129	227	0	B0	B	116	174
SMF-42B19R		N/A	B19 / NS40	35	280	300	52	197	129	227	1	B0	B	116	174
SMF-42B19RS		N/A	B19 / NS40	35	280	300	52	197	129	227	1	B0	A	116	174
SMF-42B19FL		N/A	B19 / NS40	35	280	300	52	197	129	227	0	B01	B	116	174
SMF-42B19FR		N/A	B19 / NS40	35	280	300	52	197	129	227	1	B01	B	116	174
SMF-50B24FLS		B24	51	B24 / NS60	45	360	390	70	232	129	227	0	B01	A	84
SMF-50B24FRS	51		B24 / NS60	45	360	390	70	232	129	227	1	B01	A	84	126
SMF-50B24LS	51		B24 / NS60	45	360	390	70	232	129	227	0	B0	A	84	126
SMF-50B24RS	51		B24 / NS60	45	360	390	70	232	129	227	1	B0	A	84	126
SMF-50B24L	51		B24 / NS60	45	360	390	70	232	129	227	0	B0	B	84	126
SMF-50B24R	51		B24 / NS60	45	360	390	70	232	129	227	1	B0	B	84	126
SMF-50B24FL	51		B24 / NS60	45	360	390	70	232	129	227	0	B01	B	84	126
SMF-50B24FR	51		B24 / NS60	45	360	390	70	232	129	227	1	B01	B	84	126
SMF-55B24LS	51		B24 / NS60	50	400	430	79	232	129	227	0	B0	A	84	126
SMF-55B24RS	51		B24 / NS60	50	400	430	79	232	129	227	1	B0	A	84	126
SMF-55B24L	51		B24 / NS60	50	400	430	79	232	129	227	0	B0	B	84	126
SMF-55B24FLS	51		B24 / NS60	50	400	430	79	232	129	227	0	B01	A	84	126
SMF-55B24FRS	51	B24 / NS60	50	400	430	79	232	129	227	1	B01	A	84	126	
SMF-55D23L	D23	35	D23	60	550	590	98	222	165	220	0	B01	A	64	96
SMF-55D23R		25	D23	60	550	590	98	222	165	220	1	B01	A	64	96
SMF-75D23L		35	D23	62	650	700	108	222	165	220	0	B01	A	64	96
SMF-75D23R		25	D23	62	650	700	108	222	165	220	1	B01	A	64	96
SMF-48D26FL	D26	24	D26 / N50	50	420	450	79	260	180	220	0	B01	A	64	96
SMF-48D26FR		24	D26 / N50	50	420	450	79	260	180	220	1	B01	A	64	96
SMF-55D26L		24	D26 / N50	60	540	580	98	260	180	220	0	B01	A	64	96
SMF-55D26R		24	D26 / N50	60	540	580	98	260	180	220	1	B01	A	64	96
SMF-75D26L		24	D26 / N50	65	620	670	108	260	180	220	0	B01	A	64	96
SMF-75D26R		24	D26 / N50	65	620	670	108	260	180	220	1	B01	A	64	96
SMF-80D26L		24	D26 / N50	70	640	690	118	260	180	220	0	B01	A	64	96
SMF-80D26R		24	D26 / N50	70	640	690	118	260	180	220	1	B01	A	64	96

# STARTER BATTERIES



**TURBO**  
BATTERY

# STARTER BATTERIES



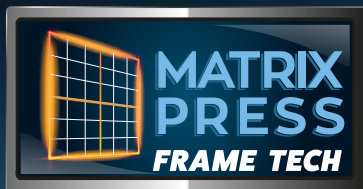
Codes	Type	BCI Type	Box Type	Ah	CCA EN (-18°C)	CCA SAE (0°F)	Reserve Capacity	Dimensions			Layout	Hold Down	Terminal	Truck Pallet	Container Pallet
								Length (a)	Width (b)	Height (c)					
SMF-65D31-FL	D31	27	D31 / N70	70	480	520	118	303	177	222	0	B01	A	48	72
SMF-65D31-FR		27	D31 / N70	70	480	520	118	303	177	222	1	B01	A	48	72
SMF-95D31-FL		27	D31 / N70	80	530	570	138	303	177	222	0	B01	A	48	72
SMF-95D31-FR		27	D31 / N70	80	530	570	138	303	177	222	1	B01	A	48	72
SMF-105D31FL		27	D31 / N70	90	640	690	158	303	177	222	0	B01	A	48	72
SMF-105D31FR		27	D31 / N70	90	640	690	158	303	177	222	1	B01	A	48	72
SMF-115D31FL		27	D31 / N70	100	690	740	172	303	177	222	0	B01	A	48	72
SMF-115D31FR		27	D31 / N70	100	690	740	172	303	177	222	1	B01	A	48	72

# STARTER BATTERIES



Codes	Type	BCI Type	Box Type	Ah	CCA EN (-18°C)	CCA SAE (0°F)	Reserve Capacity	Dimensions			Layout	Hold Down	Terminal	Truck Pallet	Container Pallet
								Length (a)	Width (b)	Height (c)					
SMF-53646	LB1	99	LB1	35	350	380	52	207	175	175	0	B13	A	80	120
SMF-54321		99	LB1	45	450	480	70	207	175	175	0	B13	A	80	120
SMF-54322		99	LB1	45	450	480	70	207	175	175	1	B13	A	80	120
SMF-54017	L1	26	L1	40	350	380	61	207	175	190	0	B13	A	80	120
SMF-54459		26	L1	45	450	480	70	207	175	190	0	B13	A	80	120
SMF-54464		26	L1	45	450	480	70	207	175	190	1	B13	A	80	120
SMF-55054		26	L1	50	450	480	79	207	175	190	0	B13	A	80	120
SMF-55046	LB2	42	LB2	50	450	480	79	242	175	175	0	B13	A	64	96
SMF-55427		42	LB2	55	540	580	88	242	175	175	0	B13	A	64	96
SMF-55459		42	LB2	55	540	580	88	242	175	175	1	B13	A	64	96
SMF-55559	L2	47	L2	55	540	580	88	242	175	190	0	B13	A	64	96
SMF-55565		47	L2	55	540	580	88	242	175	190	1	B13	A	64	96
SMF-56019		47	L2	60	550	590	98	242	175	190	0	B13	A	64	96
SMF-56020		47	L2	60	550	590	98	242	175	190	1	B13	A	64	96
SMF-56219		47	L2	62	640	690	102	242	175	190	0	B13	A	64	96
SMF-56220		47	L2	62	640	690	102	242	175	190	1	B13	A	64	96
SMF-56318		LB3	48	LB3	62	640	690	106	275	175	175	0	B13	A	52
SMF-56828	48		LB3	66	650	700	106	275	175	175	0	B13	A	52	78
SMF-56821	48		LB3	66	650	700	106	275	175	175	1	B13	A	52	78
SMF-57113	48		LB3	70	690	740	110	275	175	175	0	B13	A	52	78
SMF-56638	L3	41	L3	70	650	700	110	275	175	190	0	B13	A	52	78
SMF-56633		41	L3	70	650	700	110	275	175	190	1	B13	A	52	78
SMF-57220		41	L3	70	690	740	110	275	175	190	0	B13	A	52	78
SMF-57219		41	L3	70	690	740	110	275	175	190	1	B13	A	52	78
SMF-57412		41	L3	72	740	790	127	275	175	190	0	B13	A	52	78
SMF-57413	41	L3	72	740	790	127	275	175	190	1	B13	A	52	78	
SMF-57539	LB4	92	LB4	72	710	760	128	313	175	175	0	B13	A	48	72
SMF-58043	L4	43/94	L4	72	710	760	128	313	175	190	0	B13	A	48	72
SMF-58515	LB5	93	LB5	88	750	800	154	353	175	175	0	B13	A	48	72
SMF-58827	L5	49	L5	88	750	800	154	353	175	190	0	B13	A	48	72
SMF-58821		49	L5	88	750	800	154	353	175	190	1	B13	A	48	72
SMF-59518		49	L5	92	820	880	158	353	175	190	0	B13	A	48	72
SMF-60038		49	L5	100	900	970	158	353	175	190	0	B13	A	48	72

# EFB / START-STOP BATTERIES



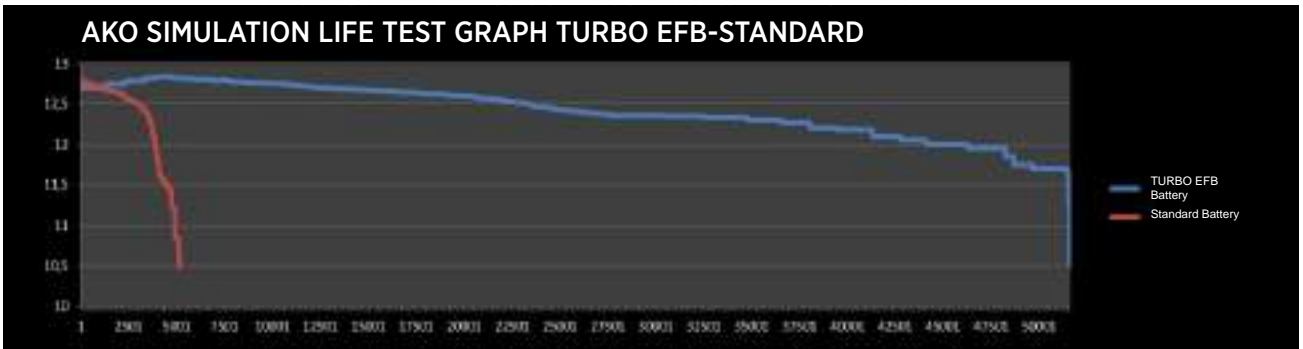
**TURBO**  
BATTERY

AKO Battery offers reinforced aqueous battery (EFB) products for automotive and commercial vehicle applications that provide superior reliability and performance compared to standard lead-acid batteries. It is specially designed and produced for vehicles with start-stop feature. It has ten times more cycle capacity than standard batteries.

It is compatible with Start-Stop vehicles, does not require any maintenance and is long-lasting. Guaranteed for 2 years.

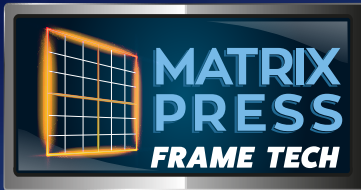
**ADVANTAGES**

- Provides ten times the partial state of charge and deep cycle performance of conventional batteries.
- Passed the tests between -40 and +65 degrees with high performance.
- Produced with Matrix-Press grid technology to provide high starting power and reliable performance.
- When used for standard vehicles, the expected life is over 5 years.



Codes	Type	BCI Type	Box Type	Ah	CCA EN (-18°C)	CCA SAE (0°F)	Reserve Capacity	Dimensions			Layout	Hold Down	Terminal	Pallets	
								Length (a)	Width (b)	Height (c)				Truck Pallet	Container Pallet
EFB 47-560	L2	47	L2	60	520	560	98	242	175	190	0/1	B13	A	64	96
EFB 48-650	LB3	48	LB3	65	580	620	108	275	175	175	0/1	B13	A	52	78
EFB 41-680	L3	41	L3	70	600	650	108	275	175	190	0/1	B13	A	52	78
EFB 92-730	LB4	92	LB4	80	620	670	138	313	175	175	0/1	B13	A	48	72
EFB 43-750	L4	43/94	L4	80	620	670	18	313	175	190	0/1	B13	A	48	72
EFB 49-920	L5	49	L5	100	780	840	179	353	175	190	0/1	B13	A	48	72
EFB-Q85-T	D23	35/25	D23	65	520	560	96	222	178	220	0/1	B01	A	64	96
EFB-S95-T	D26	24	S95	70	660	710	67	260	173	225	0/1	B01	A	64	96
EFB-T110-T	D31	27	T110	100	690	740		306	173	225	0/1	B01	A	48	72

# HEAVY DUTY BATTERIES



**TURBO**  
BATTERY



“Heavy Duty” batteries, known as heavy duty type, are generally used for tractors, trucks, etc. It has been specially developed for industrial heavy jobs such as. Heavy duty batteries meet the requirements of special usage conditions with their specially designed interior and exterior designs and are different from other standard lead acid batteries.

Heavy Duty batteries have proven their resistance to high vibration by successfully passing the 6G power 2 hours test according to the EN 50342-1 standard. Calcium / Calcium technology is used, it does not require any maintenance.

It is a “Heavy Duty” battery with “Deep Discharge” capability. It is produced with Matrix Press + Kaizen Tunnel technology.

Gas outlets are specially filtered and provide 100% safe service with full protection against sparks that may occur outside. There are AKO patented “condensation labyrinths” that prevent water loss in all eyes.

“Heavy Duty” batteries, developed by AKO Akü to meet customer demands and requirements according to the purpose of use, serve thousands of customers in different service areas.

“Heavy Duty” batteries that require heavy duty and are frequently used in industrial areas;

**Starting Power Under Severe Climatic Conditions:** Provides strong starting power to heavy duty vehicles in varying climatic conditions.

**Long Working Time:** It has been developed to meet the requirements in all areas where long working times are required to maximize operational efficiency.

**Vibration Resistance:** Provides ideal durability even in the harshest conditions subjected to continuous shocks, severe shock impacts and high vibrations.

**Improved Sealing:** It minimizes splashing and provides perfect sealing thanks to the Truck-type battery box and covers specially designed and manufactured by AKO battery in-house.

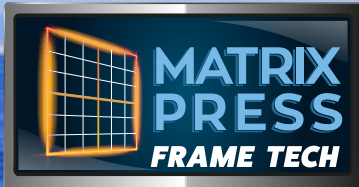
**Long Product Life:** - A long product life is essential to effectively manage operating costs.

To AKO battery customer; heavy duty, offering sustained strength, excellent durability and long life takes firm steps forward in its field. Warranty Period is 1 year or 200,000 km. (whichever fills first) Its durability is increased with its structure with PE separator (with polyethylene separator).



Codes	Type	BCI Type	Box Type	Ah	CCA EN (-18°C)	CCA SAE (0°F)	Reserve Capacity	Dimensions			Layout	Hold Down	Terminal	Truck Pallet	Container Pallet
								Length (a)	Width (b)	Height (c)					
SMF-62034	N120	N/A	D4/A	120	800	860	227	513	189	223	3	B03	A	28	42
SMF-63530	N135	N/A	D4/A	135	900	970	258	513	189	223	3	B03	A	28	42
SMF-65017	N150	4D	D5/B	150	940	1010	292	513	222	223	3	B0	A	24	36
SMF-66514	N165	4D	D5/B	165	1020	1100	324	513	222	223	3	B0	A	24	36
SMF-68032	N180	4D	D5/B	180	1060	1140	357	513	222	223	3	B0	A	24	36
SMF-70027	N200	8D	D6/C	200	1060	1140	398	515	275	240	3	B0	A	20	30
SMF-70029	N200	8D	D6/C	200	1060	1140	398	515	275	240	4	B0	A	20	30
SMF-72511	N225	8D	D6/C	225	1140	1230	468	515	275	240	3	B0	A	20	30
SMF-74050	N240	8D	D6/C	240	1200	1290	505	515	275	240	3	B0	A	20	30

# BCI & MARINE BATTERIES



**TURBO**  
BATTERY

Marine batteries are suitable for use in marine vehicles. With special safety precautions in the cover design, sparks, etc. The risk is minimized with special precautions.

Matrix Press (punch) technology, which is the most advanced production technique used in the sector, has been used, which is suitable for the delicate balances of sea, lake and other water surface vehicles, resistant to shocks and vibrations.

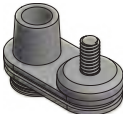
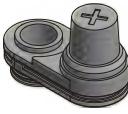
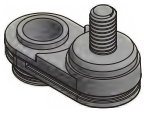



Except for the use of special marine, it is used in American vehicles and mining.

BCI 31 type batteries are produced with 3 different types (post, marine, stud) pole heads, classical or EFB, 2 different types of deep cycle features, depending on the area of use, with high and low CCA features, depending on the demand and area of use.

It is important that the connections at the point of use are correctly connected and tightly connected.

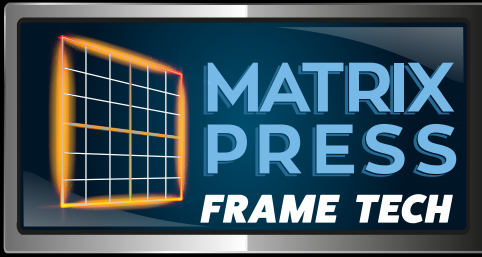
Thanks to its resistance to vibration and deep discharge, it can be used with peace of mind with a 2-year full warranty.

**TERMINAL**

Terminal	Marine Type	Post Type	Stud Type
Positive			
Negative			



Codes	Type	BCI Type	Box Type	Ah	CCA EN (-18°C)	CCA SAE (0°F)	Reserve Capacity	Dimensions			Layout	Hold Down	Terminal	Truck Pallet	Container Pallet
								Length (a)	Width (b)	Height (c)					
BCI31	31	30H	BCI31	90	770	830	158	330	172	242	18	B0	TOP	x	x
BCI31	31	30H	BCI31	115	990	1060	223	330	172	242	18	B0	TOP	x	x
BCI31	31	31S	BCI31	90	770	830	158	330	172	242	18	B0	STUD	x	x
BCI31	31	31S	BCI31	115	990	1060	223	330	172	242	18	B0	STUD	x	x
BCI31	31	31S	BCI31	110	770	830	201	330	172	242	18	B0	DUAL	x	x
BCI31	31	31M	BCI31	125	940	1010	234	330	172	242	18	B0	DUAL	x	x



## Hit The Road



### NO SHORT CIRCUIT, THANKS TO MATRIX PRESS

Short circuit resulting from bended corners which puncture envelopes. Prevented by MATRIX PRESS technology solid frame.



### NO GRID GROWTH, THANKS TO MATRIX PRESS

Grid growth resulting from overheat, overcharge, etc. prevented by MATRIX PRESS Technology.



### HIGH MECHANICAL STRENGTH

Thanks to MATRIX PRESS technology providing extra strength with the help of special alloy and special grid design.



### EMPOWERED BATTERY PERFORMANCE & DURABILITY

Reinforced frame and stout wire design beneath the lug, empowers the battery performance and result durability.



### EXTRA RESISTANCE AGAINST VIBRATION WITH SPECIAL STRAP DESIGN.

Super Vibration Proof ability available on request. Where cells are fitted with special fixers to resist sharp bumps and continuous vibration.

MATRIX PRESS is the latest and continuous process in plate production technology.

MATRIX PRESS technology provides the best quality product comparing to all other production methods. MATRIX PRESS products are calcium calcium, absolute maintenance free and has long life with deep cycle abilities.

## SUPERIORITIES OF MATRIX PRESS TECHNOLOGY

78% MORE RESISTANT TO CORROSION



Cold Rolling in MATRIX PRESS provides corrosion resistant grains, while hot casting positive grids are very open to corrosion.

SENSITIVITY: 0,001 mm



Cold Rolling in MATRIX PRESS provides excellent thickness stability of the grid (+-0,001mm)

99,99% SOLID



Special design of MATRIX PRESS avoids micro cracks in grid wires.

STRONG ADHESION



2 times better adhesion between grid and active material compare to previous generation products, thanks to special MATRIX PRESS surface treatment system.



Genel Merkez Adres: AKO Kule, Söğütözü Mah. 2178. Cadde No:6 Çankaya/Ankara • [www.turboaku.com](http://www.turboaku.com) • [f](https://www.facebook.com/turboaku) [i](https://www.instagram.com/turboaku) [y](https://www.youtube.com/turboaku) /turboaku

Akü Fabrika: Yakınkent OSB 2. Cad. 1.Sok. No.1 Tüney Köyü Mevkii Çankırı • Email: [info@akoaku.com](mailto:info@akoaku.com) • Tel: 0 312 309 30 30