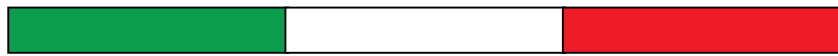


WWW.VIPIEMME.IT







100% Made in Italy since 1980

GENERAL CATALOGUE

2016\2017



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THE COMPANY

Vipiemme S.p.A. has been operating in Italy in the lead electric batteries market since 1980.

The company started its business activities

with the aim of manufacturing and selling lead-acid accumulators for light and heavy vehicles. After an initial assembly and marketing phase, and following an enthusiastic and appreciative response from the market, Vipiemme decided on a new company policy aimed at:

- Integration of upstream production process, aimed at the internal development of the raw materials transformation process;
- Ensure the safe and uniform quality of the product;
- Increase in production volumes on a reliable basis.

This policy, supported by a significant amount of investment, rewards the company, which has quickly acquired and consolidated with an excellent market position in Italy because of its products. The construction of the new operating HQ started in 1994: It occupies a surface area of 85,000 m², of which 30,000 m² is covered by the buildings. In 1996 the company was transformed from an srl into an S.p.A., and in the second half of 1997 the entire company moved to the new production facilities. Having complied with the programmes regarding the development of the plants, after a year of operation production levels reached about 700,000 batteries.

The philosophy that inspires the company's management, dedicated to the high quality of its products, at this point brought the company to a further economic effort, to ensure the technological production standards would be cutting edge compared with the requirements of the market: the production of the expanded grid lead-calcium battery started and the improvement of all the production process systems. Vipiemme also becomes a strategic centre for experimentation and research for manufacturers of processing machinery, who install and test new equipment and technologies at the company's premises. "Technological innovation is ongoing and involves many of the company's financial resources, but to safely ensure uniform product quality requires continuous investment and the search for innovative solutions regarding accumulator -related technology" stated Alfredo Volpi the company's CEO. Vipiemme has two internal laboratories, a chemical and an electric one, in which it carries out all its intermediate process and processing quality tests. To further demonstrate its commitment to cutting edge technology, Vipiemme was one of the leading companies for the introduction in 2001 of laminated tape technology into its production process. In 2002, the company's efforts involved the traction and semi-stationary segment with the development of new niche products for strategic markets (nautical, hobbies, etc.). In the three year period from 2002 – 2004, the expansion start continued and the company searched for new challenges able to improve its reputation on the market and further developing its brand. The company also change its organisational structure, transformed from a small to a medium/large sized, with significant prospects for growth and change, based on a managerial organisation and a corporate image that would distinguish it from other companies. With the manufacturing of new products for strategic niche markets (boating, hobbies, etc), Vipiemme made every effort to

constantly improve its organisational structure, since it is convinced that the "quality" of a product depends not only on the "quality" of the production process but also all the other business processes. This is why even this year, Vipiemme successfully passed the examination for certification of its quality system in compliance with UNI EN ISO 9001, along with, UNI EN ISO 14001 certification. The company also completed a project to achieve OHSAS 18001 certification for health and safety in the workplace. The environment is also very important

to Vipiemme, and it has always developed solutions aimed at respect for the environment and the protection of the territory. It is in fact committed to the use of renewable resources and is now active in COBAT, a consortium which deals with the collection and transportation of waste batteries. Current production stands at approximately 1,400,000 batteries per year, which are mainly sold in the Italian and international aftermarket. Over the years, Vipiemme has found excellent partners in the international arena to sell its products and it is thanks to Vipiemme France, Vipiemme Middle East and Vipiemme Ukraine if the products are currently present in many markets such Europe, Africa, the Middle East and the United States.



EXPANDED GRIDS TECHNOLOGY FOR CARS



The wet charged series is made with flat Pb/Ca/St/Al plates of increased thickness to better withstand the effect of cycles (duration) over time, in line with the new energy needs of cars. This is possible thanks to the innovative design of the grid, which allows an excellent distribution of the current in the discharging and charging phases. The irregular diamond-shaped grid, which is narrower at the top of the grid and wider at the bottom, facilitates the chemical/electric reaction in the discharging and re-charging phases, thus enhancing starting performance, without sacrificing durability (life-cycle), thanks to the greater thickness of the plates). This is possible due to the widened cross points of at the geometric intersections. The alloy is manufactured using primary lead (99.99%) with calcium/aluminium and tin, so it is possible to support the concept of ZERO MAINTENANCE with very low self-discharge (temp. 25/30°C), in addition excellent resistance to corrosion.

CASTED GRIDS TECHNOLOGY FOR TRUCKS



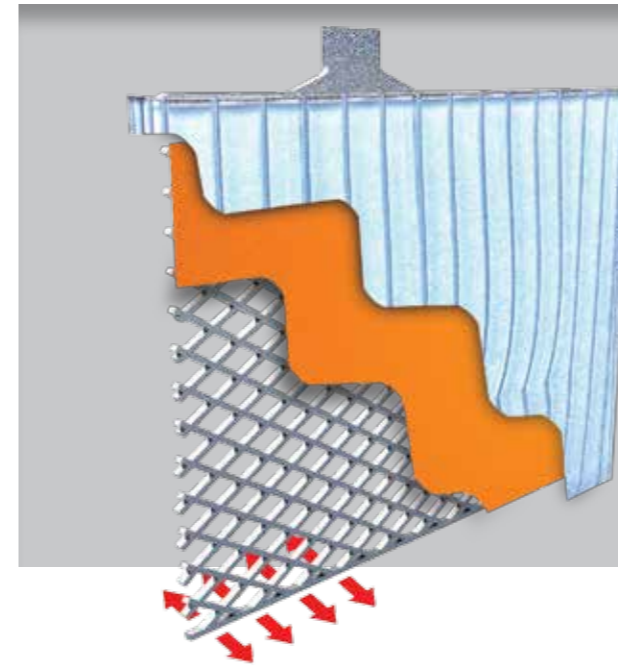
The recent technological developments related to the manufacturing of the elements used for truck starter batteries, in specific grids, means that many manufacturers have chosen the expanded plates or punching. In the commercial vehicle sector the massive presence of electronics, electrical accessories, hydraulic and satellite systems, etc. means batteries do not start properly but, above all, that they must ensure a high energy supply as support even when the engine is switched off, particularly with E5-E6 engines. Vapiemme has always used casted grid technology, which is more robust and suitable to perform this dual task (starter and prolonged discharge). New grids (pos. and neg.) were made in view of the new requirements, With a new design studied to allow optimal performance of repeated discharges and recharges, as well as remarkable starting performance. More attention was focused on the thickness of the plate, in order to increase the nominal capacity (AH) of the battery. As is easy to understand, when analysing heavy vehicles used for transportation, agriculture, construction etc., we find ourselves faced with the usual problems of vibrations and bumps, present due to the uneven ground they have to cover. Specifically, the casted grid offers more robustness and reliability, without prejudicing devices for blocking elements, inside each cell of the box, which stop the fall of the active material on the plate. The alloy is manufactured using primary lead (99.99%) whether they are calcium (Ca) plates or those with a low content of antimony (Sb), which supports the ZERO MAINTENANCE concept and very low self-discharge (temp. 25/30°C), in addition to excellent corrosion resistance.

CASTED GRIDS TECHNOLOGY FOR **AGM** BATTERIES



This wet charged series is made of casted Pb/Ca/Ag plates, in line with the new energy needs of cars equipped with the Start & Stop system. This is possible thanks to the innovative design of the grid, which allows exceptional power distribution during charging and discharging, ensuring a duration (cycles) higher than the energy of specific cars. The alloy is made with the use of primary lead (99.99%) with calcium/silver, for better charging, and therefore making them MAINTENANCE FREE, as well as having a very low self-discharge (temp. 25/30°C), in addition to exceptional corrosion resistance

SAFE ENERGY PLUS SERIES NEW TECHNOLOGY



The SAFE ENERGY PLUS range is developed using expanded grid technology in Pb/Ca alloy and therefore is MAINTENANCE FREE and with very low auto-discharge. The positive plate is thicker, improving the battery performance in cycles, in compliance with the new energetic car demands. The cold-cracking is high and the battery has a good resistance to the corrosion.



The main characteristic of this battery is the DUPLEX lid (with a charge indicator) which prevents the acid leak in case of overturning.



TOP ENERGY EVO

DRY CHARGED VERSION



LOW MAINTENANCE



ANTI EXPLOSION



ENVELOPE SEPARATOR

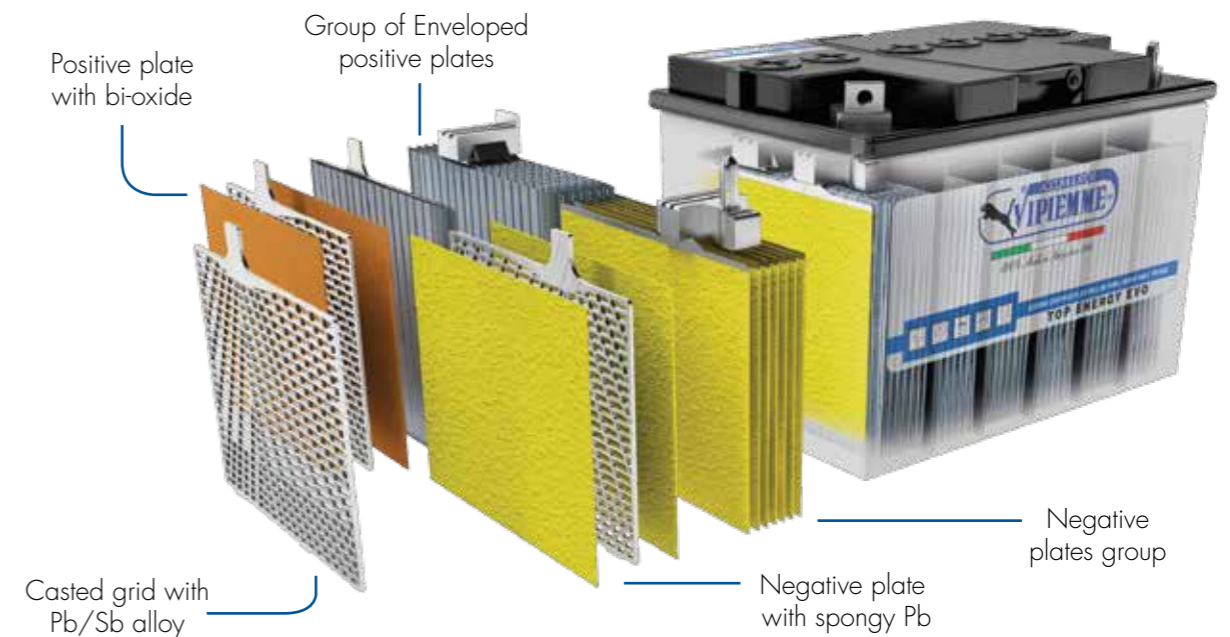


ANTI VIBRATION



LOW SELF-DISCHARGE

**NOT ORDINARY BATTERIES,
BUT PRODUCTS WITH A HIGH
TECHNOLOGICAL
CONTENT!**



- Dry charged from 24 to 32 Ah
- Casted grids technology with Pb\Sb
- Thicker plates
- High starter capacity
- Hi-performance polyethylene envelope separator
- Cover with centralised degasification
- Explosion proof pad
- Very low self-discharge
- Vibrations resistant (V2)
- Low maintenance

Battery code	Dimensions max mm.			Voltage V	Capacity Ah	Discharge EN (A)	Box	Polarity and layout	Type of terminal	Hold down to the base	Weight Kg (±5%)	Quantity per pallet
	Length	Width	H.Tot									
B222S	187	128	167	12	24	230	28NU	Right	4	B0	5,5	36x4
B443S	187	128	167	12	30	300	28NU	Left	4	B0	6,5	36x4
B444S	187	128	167	12	30	300	28NU	Right	4	B0	6,5	36x4
B333S	233	131	167	12	32	300	32NU	Right	4	B0	6,8	24x4

TOP ENERGY EVO

WET CHARGED VERSION



LOW MAINTENANCE



ANTI EXPLOSION



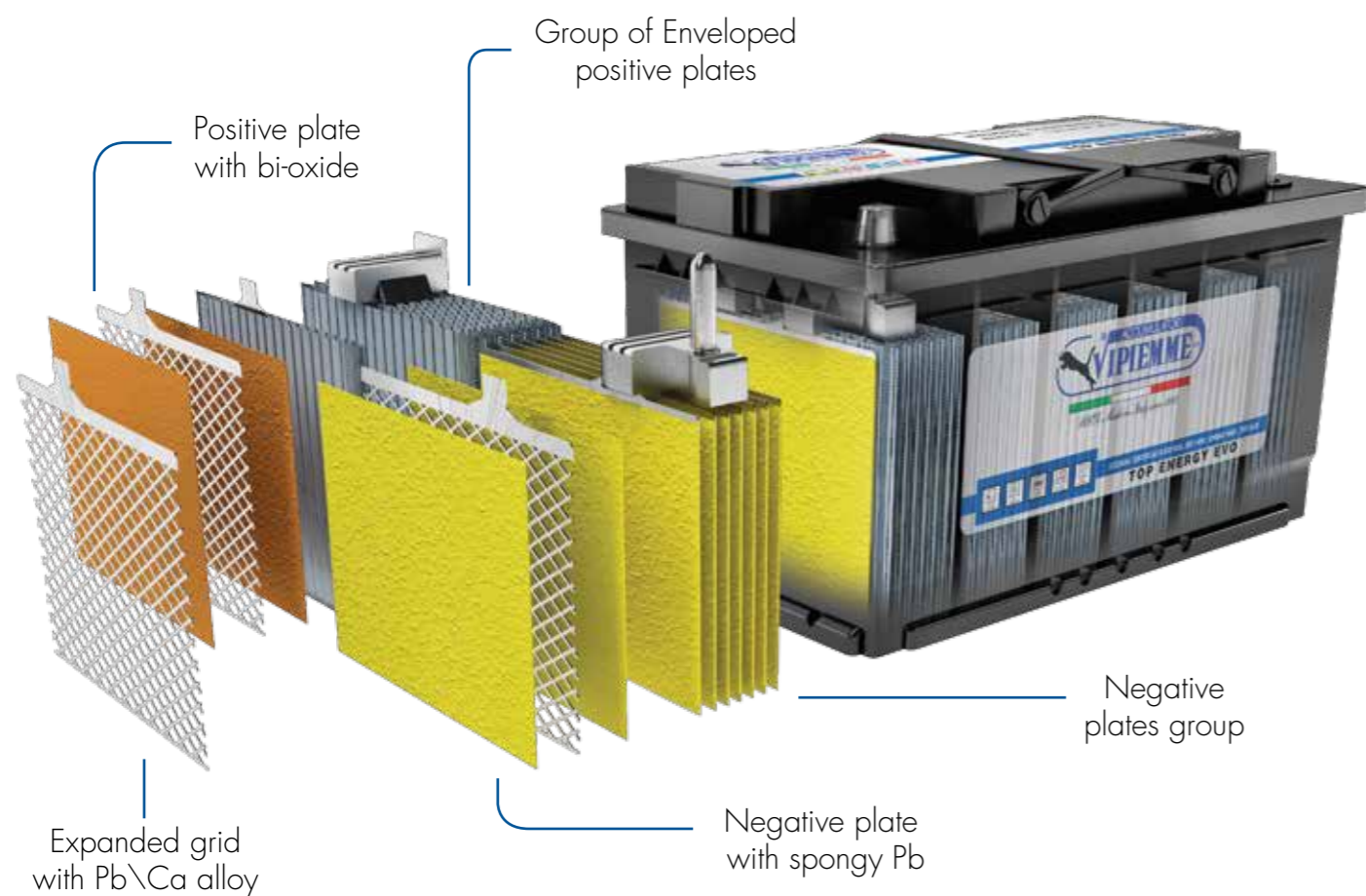
ENVELOPE SEPARATOR



ANTI VIBRATION



LOW SELF-DISCHARGE



- Wet charged and ready to use from 45 to 110 Ah
- Expanded alloy grids technology with Pb/Ca
- Thicker plates
- Higher starting capacity
- Hi-performance polyethylene envelope separator
- Centralised degasification cover
- Explosion-proof pad
- Very low self-discharge
- Vibration resistant (V2)
- Maintenance free

Battery code	Dimensions max mm.			Voltage V	Capacity Ah	Discharge EN (A)	Tester	Box	Polarity and layout	Type of terminal	Hold down to the base	Weight Kg (±5%)	Quantity per pallet
	Length	Width	H.Tot										
B108C	175	175	190	12	45	390	430	L0	Right	1	B13	10,0	24x4
B032C	207	175	175	12	45	360	390	L1B	Right	1	B13	10,8	20x4
B002C	207	175	190	12	45	360	390	L1	Right	1	B13	11,5	20x4
B034C	207	175	175	12	45	400	430	L1B	Right	1	B13	11,1	20x4
B044C	207	175	190	12	45	400	430	L1	Right	1	B13	11,8	20x4
B036C	207	175	175	12	50	450	480	L1B	Right	1	B13	11,5	20x4
B030C	207	175	190	12	50	450	480	L1	Right	1	B13	12,3	20x4
B029C	207	175	190	12	50	450	480	L1	Left	1	B13	12,3	20x4
B064C	242	175	175	12	55	450	480	L2B	Right	1	B13	12,8	18x4
B040C	242	175	175	12	60	510	530	L2B	Right	1	B13	13,2	18x4
B004C	242	175	190	12	60	510	530	L2	Right	1	B13	14,0	18x4
B068C	242	175	190	12	65	540	580	L2	Right	1	B13	14,6	18x4
B067C	242	175	190	12	65	540	580	L2	Left	1	B13	14,6	18x4
B084C	278	175	175	12	70	580	630	L3B	Right	1	B13	15,7	16x4
B006C	278	175	190	12	70	580	630	L3	Right	1	B13	16,5	16x4
B086C	278	175	175	12	75	640	680	L3B	Right	1	B13	16,2	16x4
B014C	278	175	190	12	75	640	680	L3	Right	1	B13	17,0	16x4
B013C	278	175	190	12	75	640	680	L3	Left	1	B13	17,0	16x4
B088C	278	175	175	12	80	680	730	L3B	Right	1	B13	16,5	16x4
B016C	278	175	190	12	80	680	730	L3	Right	1	B13	17,3	16x4
B092C	310	175	175	12	85	760	800	L4B	Right	1	B13	19,1	14x4
B078C	310	175	190	12	90	760	800	L4	Right	1	B13	20,4	14x4
B090C	354	175	175	12	88	760	800	L5B	Right	1	B13	20,1	12x4
B010C	354	175	190	12	88	760	800	L5	Right	1	B13	21,7	12x4
B098C	354	175	175	12	95	850	900	L5B	Right	1	B13	21,2	12x4
B094C	354	175	190	12	100	850	900	L5	Right	1	B13	22,8	12x4
B100C	392	175	190	12	110	850	900	L6	Right	1	B13	24,7	12x3

SAFE ENERGY PLUS

WET CHARGED VERSION



LOW MAINTENANCE



ANTI EXPLOSION



ENVELOPE SEPARATOR



ANTI VIBRATION



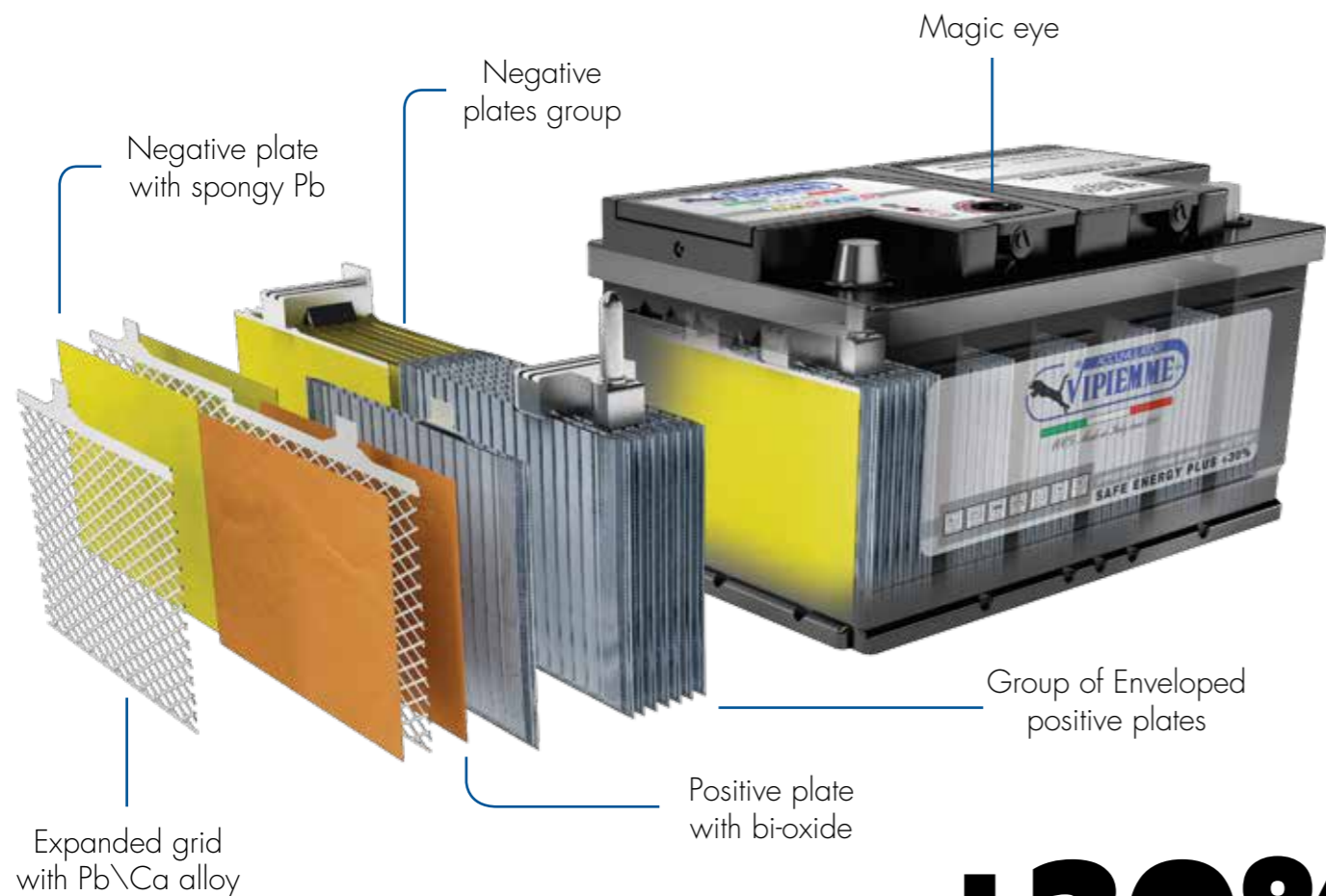
LOW SELF-DISCHARGE



MAGIC EYE



DOUBLE COVER



+30%

- Wet charged and ready to use from 45 to 100 Ah
- Expanded alloy grids technology with Pb\Ca
- Thicker plates
- Higher starting capacity
- Hi-performance polyethylene envelope separator
- **+30%** starter power
- 180 degree rotation without leakage
- Hermetic DUPLEX lid with gas recovery
- Explosion-proof pad
- Very low self-discharge
- Vibration resistant (V2)
- Maintenance free
- Magic eye + caps with double o-ring

Battery code	Dimensions max mm.			Voltage V	Capacity Ah	Discharge EN (A)	Tester	Box	Polarity and layout	Type of terminal	Hold down to the base	Weight Kg (±5%)	Quantity per pallet
	Length	Width	H.Tot										
B650C	207	175	175	12	45	400	430	L1B	Right	1	B13	11,4	20x4
B852C	207	175	190	12	45	400	430	L1	Right	1	B13	12,1	20x4
B854C	207	175	190	12	55	500	530	L1	Right	1	B13	13,0	20x4
B652C	242	175	175	12	60	500	530	L2B	Right	1	B13	14,0	18x4
B856C	242	175	190	12	60	500	530	L2	Right	1	B13	14,7	18x4
B654C	242	175	175	12	65	600	630	L2B	Right	1	B13	14,8	18x4
B858C	242	175	190	12	65	600	630	L2	Right	1	B13	15,6	18x4
B656C	278	175	175	12	77	690	730	L3B	Right	1	B13	17,0	16x4
B862C	278	175	190	12	80	690	730	L3	Right	1	B13	17,8	16x4
B658C	310	175	175	12	88	820	850	L4B	Right	1	B13	19,7	14x4
B868C	310	175	190	12	95	820	850	L4	Right	1	B13	21,0	14x4
B660C	354	175	175	12	95	850	900	L5B	Right	1	B13	21,2	12x4
B824C	354	175	190	12	100	850	900	L5	Right	1	B13	22,8	12x4

KATANA

WET CHARGED VERSION



LOW MAINTENANCE



ANTI EXPLOSION



ENVELOPE SEPARATOR



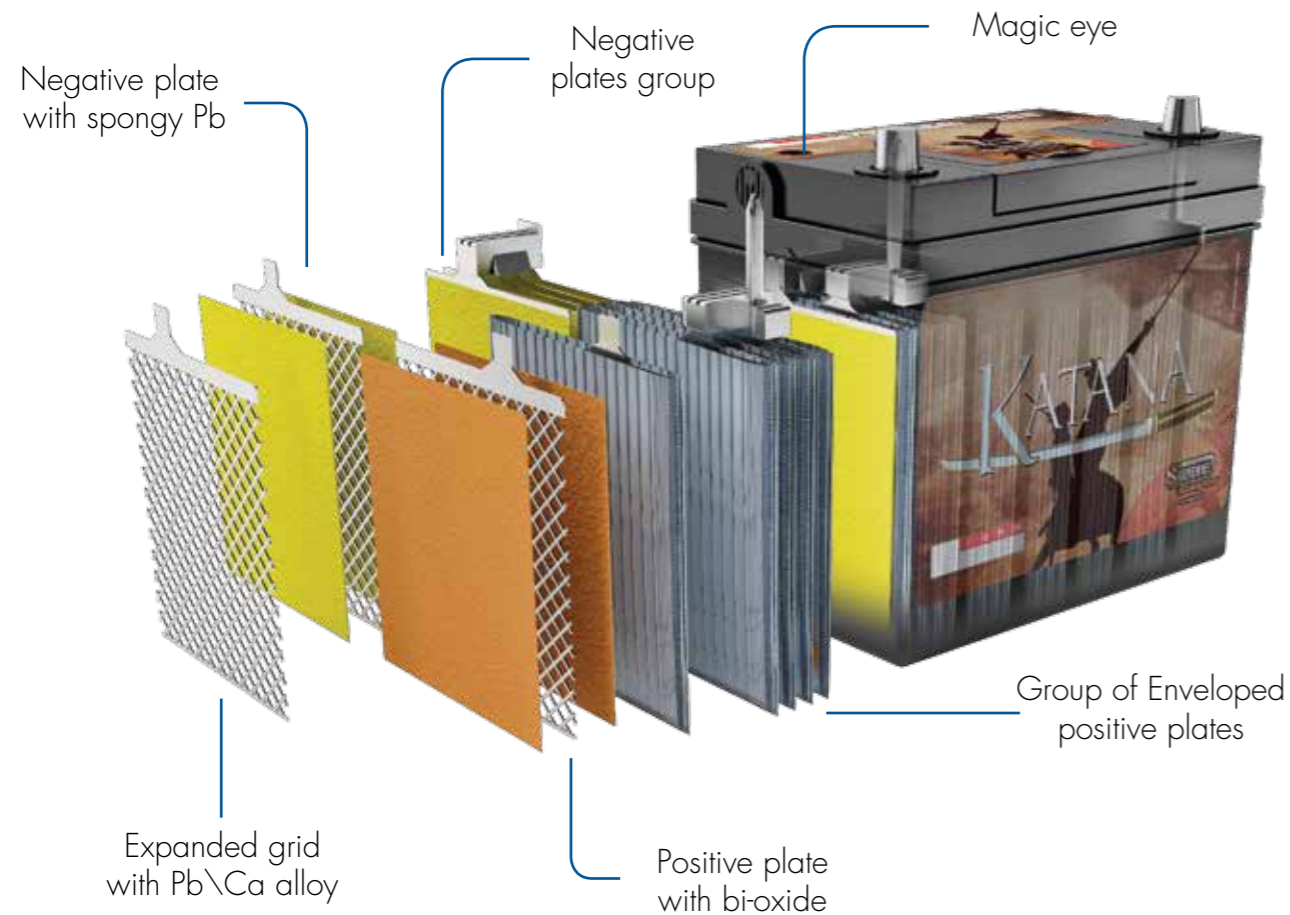
ANTI VIBRATION



LOW SELF-DISCHARGE



MAGIC EYE



- Wet charged and ready to use from 40 to 100 Ah
- Expanded alloy grids technology with Pb/Ca and low Sb casted Pb/Sb grids *
- Thicker plates
- Centralised degasification cover
- Maintenance free
- Explosion proof pad
- Recessed ergonomic handle
- Magic eye
- Very low self-discharge
- Vibration resistant (V2)

Battery code	Dimensions max mm.			Voltage V	Capacity Ah	Discharge EN (A)	Tester	Box	Polarity and layout	Type of terminal	Hold down to the base	Weight Kg (±5%)	Quantity per pallet
	Lenght	Width	H.Tot										
* B437C	187	127	225	12	40	330	/	NS40	Left pp	1	B0	10,8	24x3
* B438C T	187	131	225	12	40	330	/	NS40	Right pp	1	B1	10,8	24x3
* B438C	187	127	225	12	40	330	/	NS40	Right pp	1	B0	10,8	24x3
* B425C	219	135	225	12	45	360	/	E2	Left	1	B1	12,5	25x3
* B426C	219	135	225	12	45	360	/	E2	Right	1	B1	12,5	25x3
* B451C	238	129	227	12	45	360	/	NS60	Left pp	1	B0	13,0	27x3
* B452C	238	129	227	12	45	360	/	NS60	Right pp	1	B0	13,0	27x3
° B457C	232	173	225	12	62	480	520	D23	Left	1	B0	16,0	20x3
° B458C	232	173	225	12	62	480	520	D23	Right	1	B0	16,0	20x3
° B461C	261	175	220	12	70	480	540	GR24	Left	1	B1	18,3	16x3
° B462C	261	175	220	12	70	480	540	GR24	Right	1	B1	18,3	16x3
° B495C	306	173	225	12	100	750	800	GR28	Left	1	B0	23,5	14x3
° B496C	306	173	225	12	100	750	800	GR28	Right	1	B0	23,5	14x3

AGM

WET CHARGED VERSION



LOW MAINTENANCE



ANTI EXPLOSION



FIBRE GLASS



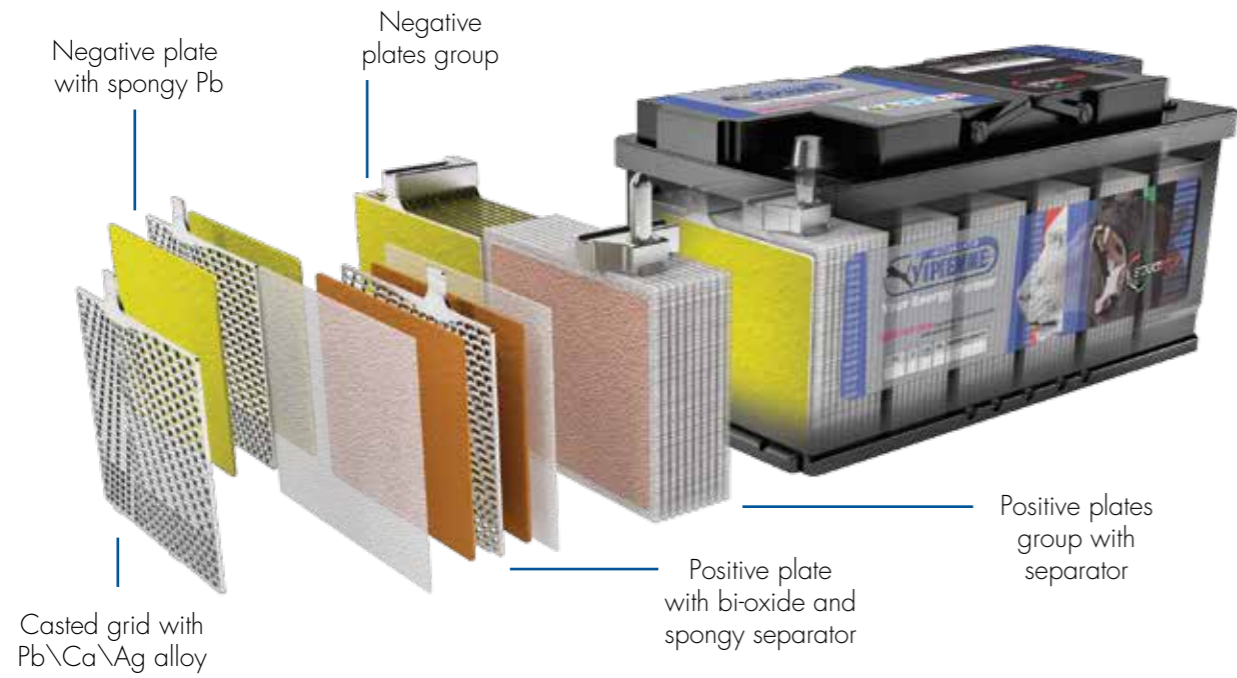
ANTI VIBRATION



LOW SELF-DISCHARGE



ENERGY ON BOARD



- Wet charged and ready to use from 50 to 90 Ah
- Hybrid technology with positive casted grids with Pb\Ca\Ag and negative expanded grids with Pb\Ca
- Special absorbent separator (AGM) with gas recombination
- Hermetic lid
- Special plugs with VRLA valve
- High performance and cycle life
- Heavy Duty (V3) vibration resistant
- 180 degree rotation without leakage
- Very low self-discharge
- Maintenance free

Battery code	Dimensions max mm.			Voltage V	Capacity Ah	Discharge EN (A)	Box	Polarity and layout	Type of terminal	Hold down to the base	Weight Kg (±5%)	Quantity per pallet
	Length	Width	H.Tot									
BM52C	207	175	190	12	50	530	L1	Right	1	B13	15,2	20x4
BM54C	242	175	190	12	60	640	L2	Right	1	B13	17,8	18x3
BM56C	278	175	190	12	70	750	L3	Right	1	B13	20,3	16x3
BM70C	310	175	190	12	80	810	L4	Right	1	B13	23,1	14x3
BM72C	354	175	190	12	90	850	L5	Right	1	B13	26,4	12x3

AFB

WET CHARGED VERSION



LOW MAINTENANCE



ANTI EXPLOSION



ENVELOPE SEPARATOR



ANTI VIBRATION



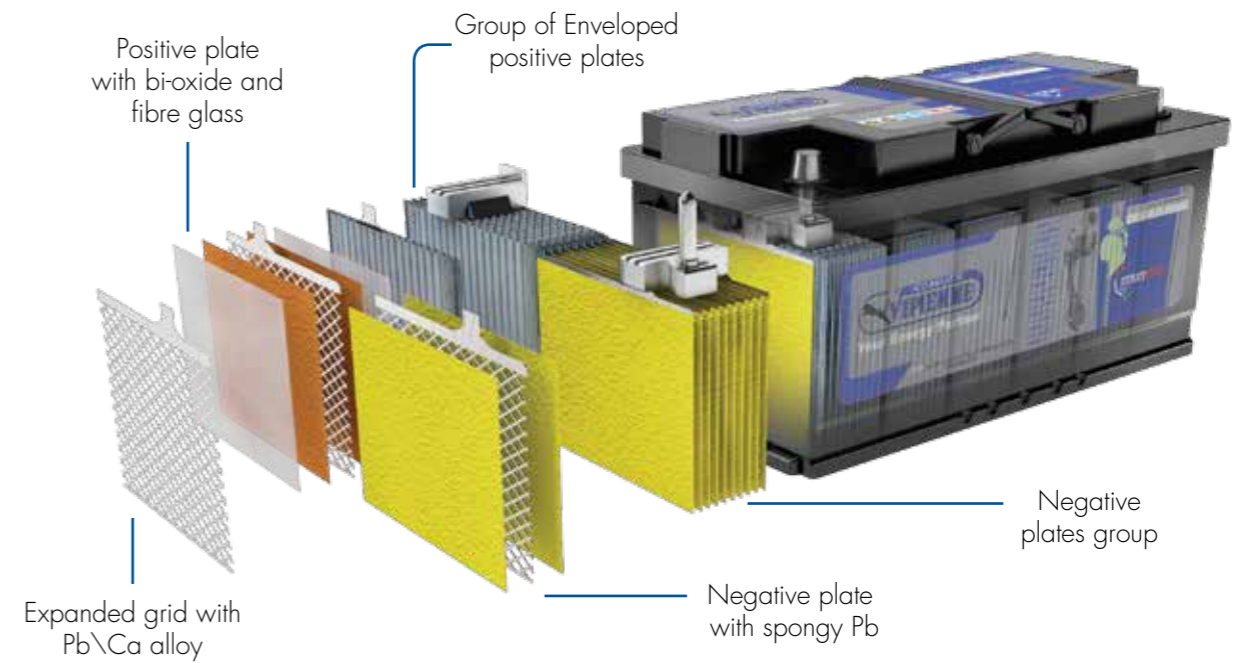
LOW SELF-DISCHARGE



FIBRE GLASS



ENERGY ON BOARD

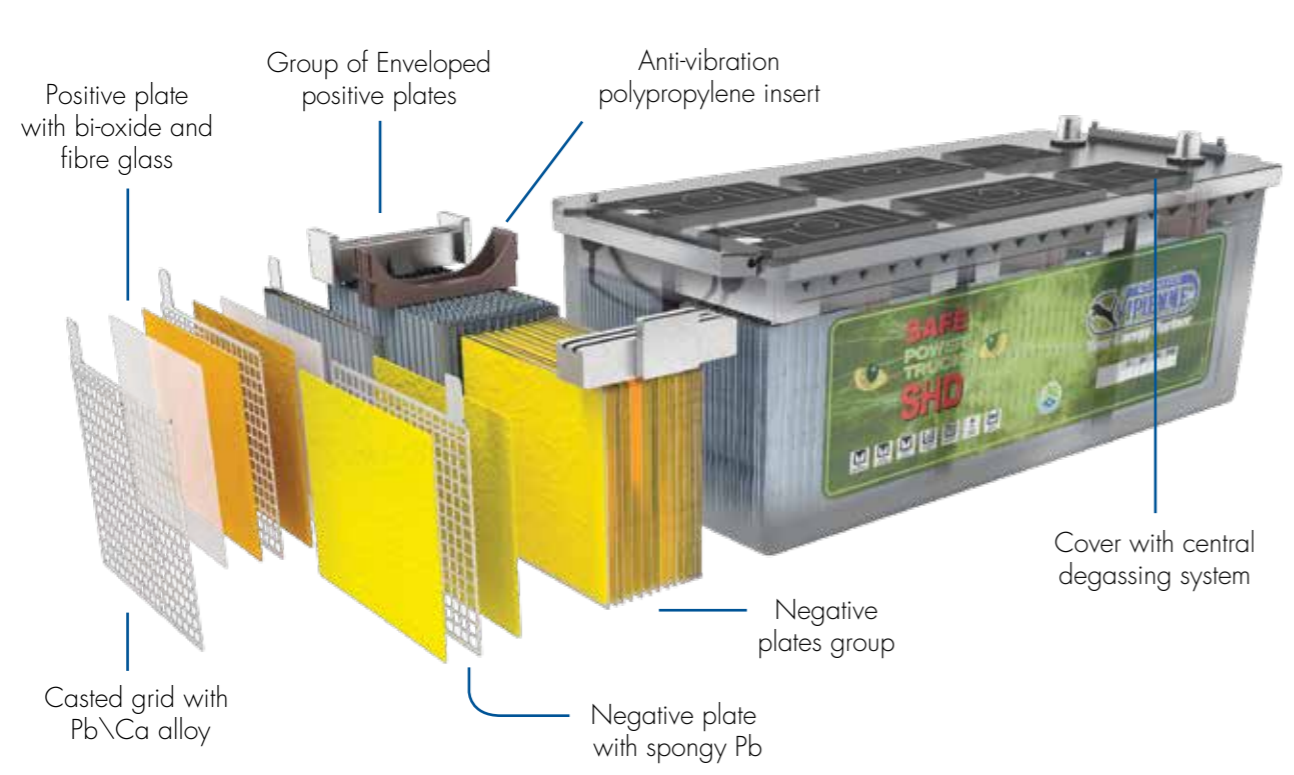


- Wet charged and ready to use from 55 to 105 Ah
- Expanded grids technology with Pb\Ca
- High performance and cycle life
- Heavy Duty (V3) vibration resistant
- Resistant to high temperatures
- Maintenance free
- Low self-discharge

Battery code	Dimensions max mm.			Voltage V	Capacity Ah	Discharge EN (A)	Tester	Box	Polarity and layout	Type of terminal	Hold down to the base	Weight Kg (±5%)	Quantity per pallet
	Length	Width	H.Tot										
BF52C	207	175	190	12	55	460	510	L1	Right	1	B13	13,0	20x4
BF54C	242	175	190	12	70	610	650	L2	Right	1	B13	16,3	18x3
BF56C	278	175	190	12	80	700	750	L3	Right	1	B13	18,6	16x3
BF70C	310	175	190	12	90	800	830	L4	Right	1	B13	21,2	14x3
BF72C	354	175	190	12	105	880	900	L5	Right	1	B13	23,6	12x3

TOP POWER SHD

SUPER HEAVY DUTY - WET CHARGED VERSION

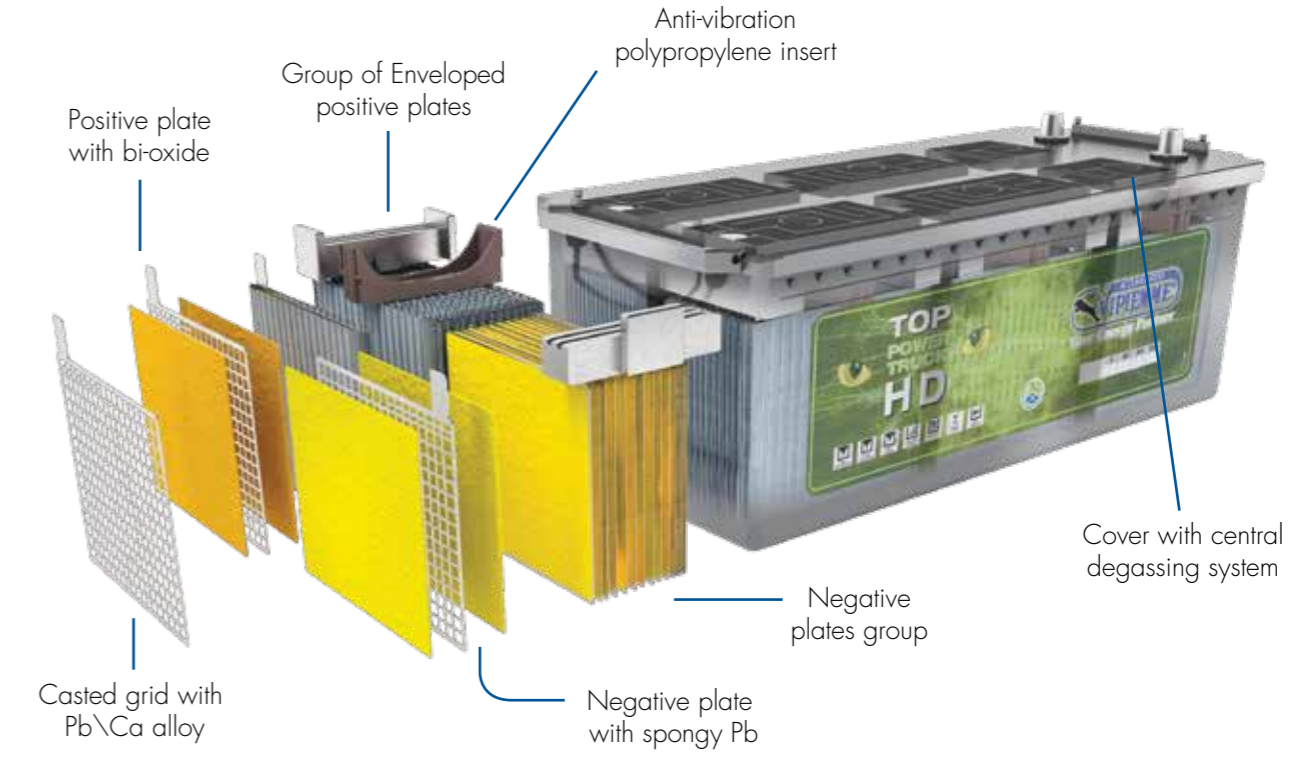


- Wet charged and ready to use from 140 to 215 Ah
- Casted grids technology with Pb/Ca
- New grid design
- Thicker plates
- Polyethylene and fibre glass envelope separator
- Long life cycle
- High cold cranking
- Sealed lid with centralised degasification
- Explosion-proof pad
- Vibrations resistant (V3)
- Maintenance free

Battery code	Dimensions max mm.			Voltage V	Capacity Ah	Discharge EN (A)	Box	Polarity and layout	Type of terminal	Hold down to the base	Weight Kg (±5%)	Quantity per pallet
	Length	Width	H.Tot									
B107C	513	190	223	12	140	950	A/plane	Left	1	B0	37,4	8x3
B113C	513	223	223	12	175	1150	B/plane	Left	1	B0	46,0	7x3
B117C	518	273	242	12	215	1350	C/plane	Left	1	B0	60,0	6x3

TOP POWER HD

HEAVY DUTY - WET CHARGED VERSION



- Wet charged and ready to use from 145 to 220 Ah
- Hybrid casted grids technology (positive Pb/Ca negative Pb/Sb)
- New grid design
- Thicker plates
- Polyethylene envelope separator
- Long life cycle
- High cold cranking
- Sealed lid with centralised degasification
- Explosion-proof pad
- Vibrations resistant (V3)
- Maintenance free

Battery code	Dimensions max mm.			Voltage V	Capacity Ah	Discharge EN (A)	Box	Polarity and layout	Type of terminal	Hold down to the base	Weight Kg (±5%)	Quantity per pallet
	Length	Width	H.Tot									
B109C	513	190	223	12	145	970	A/plane	Left	1	B0	38,0	8x3
B115C	513	223	223	12	180	1200	B/plane	Left	1	B0	46,5	7x3
B119C	518	273	242	12	220	1400	C/plane	Left	1	B0	60,4	6x3

TOP ENERGY TIR

HEAVY DUTY - WET CHARGED VERSION



LOW MAINTENANCE



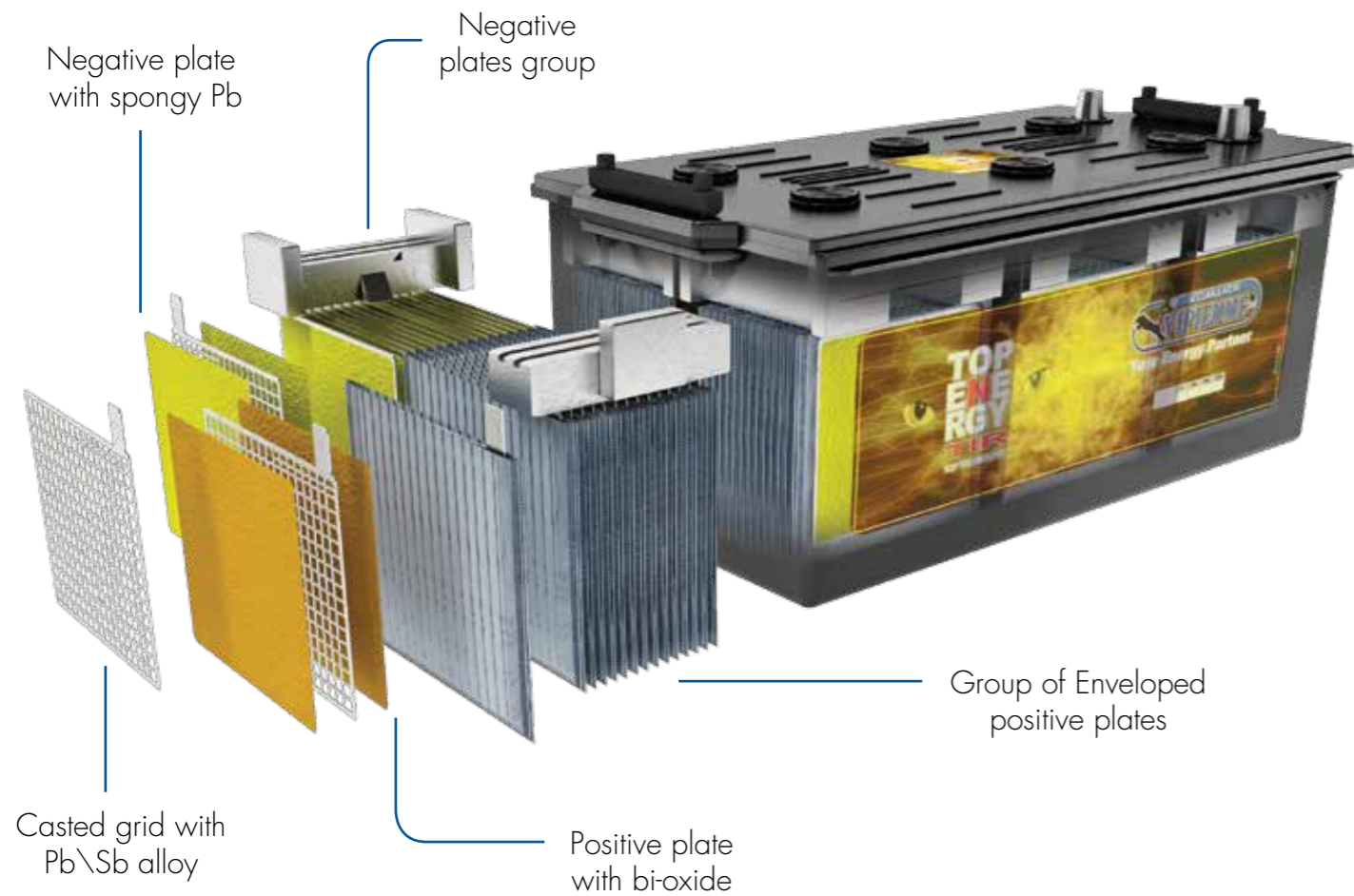
ENVELOPE SEPARATOR



ANTI VIBRATION



LOW SELF-DISCHARGE



- Wet charged and ready to use from 100 to 220 Ah
- Casted grids technology with Pb\Sb
- New grid design
- Thicker plates
- Polyethylene envelope separator
- Vibrations resistant (V2)
- Very low self-discharge
- Maintenance free

Battery code	Dimensions max mm.			Voltage V	Capacity Ah	Discharge EN (A)	Box	Polarity and layout	Type of terminal	Hold down to the base	Weight Kg (±5%)	Quantity per pallet
	Lenght	Width	H.Tot									
B020C	354	175	190	12	100	900	L5	Right	1	B13	23,6	12x4
B095C 21	323	175	215	12	100	800	GR28	Left	1	B13	23,5	12x3
B096C 21	323	175	215	12	100	800	GR28	Right	1	B13	23,5	12x3
B096C	310	175	205	12	100	800	90MB	Right	1	B1	23,5	14x3
B105C	415	175	215	12	105	770	AT100	Left	1	B3	28,0	9x3
B106C	415	175	215	12	105	770	AT100	Right	1	B3	28,0	9x3
B101C	343	175	232	12	110	850	98COMP	Left	1	B0	29,0	12x3
B102C	343	175	232	12	110	850	98COMP	Right	1	B0	29,0	12x3
B102C T2	343	175	232	12	110	850	98COMP	Right	1	B1	29,0	12x3
B123C	513	190	223	12	125	960	A	Left	1	B0	35,5	8x3
B124C	508	175	228	12	125	960	MAC120	Right	1	B3	35,0	8x3
B131C	343	175	283	12	130	920	127COMP	Left	1	B0	32,5	12x2
B132C	343	175	283	12	130	920	127COMP	Right	1	B0	32,5	12x2
B280C	360	253	240	12	135	950	135AH	Right	1	B0	37,5	8x3
B134C	508	175	205	12	140	1120	MAT132	Right	1	B1	34,5	8x3
B135C	514	175	210	12	140	1080	MAC110D	Left	1	B3	37,0	8x3
B136C	514	175	210	12	140	1080	MAC110D	Right	1	B3	37,0	8x3
B146C	513	223	223	12	170	1140	B	Right	1	B3	42,5	7x3
B147C	513	223	223	12	170	1140	B	Left	1	B0	42,5	7x3
B158C	513	223	223	12	185	1200	B	Right	1	B3	45,5	7x3
B159C	513	223	223	12	185	1200	B	Left	1	B0	45,5	7x3
B212C	518	273	242	12	220	1400	C	Right	1	B0	58,5	6x3
B213C	518	273	242	12	220	1400	C	Left	1	B0	58,5	6x3

TOP ENERGY TIR

HEAVY DUTY - DRY CHARGED VERSION



LOW MAINTENANCE



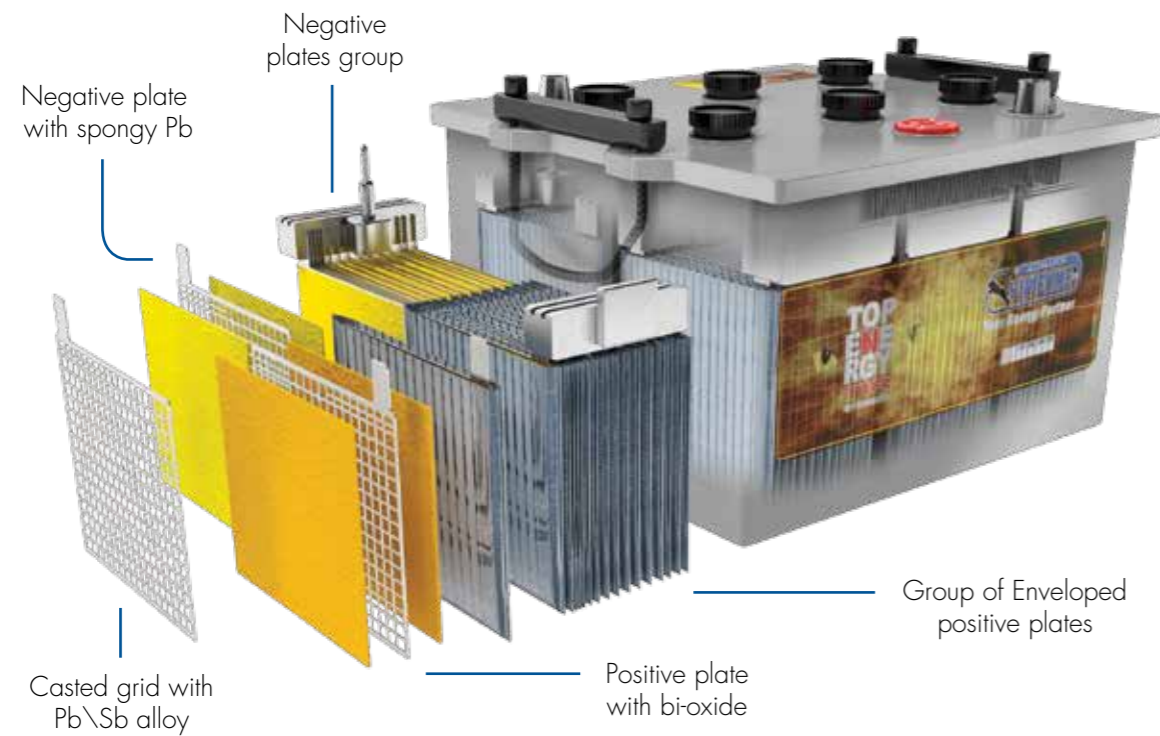
ENVELOPE SEPARATOR



ANTI VIBRATION



LOW SELF-DISCHARGE



- Dry charged from 100 to 140 Ah
- Casted grids technology with Pb\Sb
- New grid design
- Thicker plates
- Polyethylene envelope separator
- Vibrations resistant (V2)
- Very low self-discharge
- Low maintenance

TOP ENERGY TIR HD

HEAVY DUTY - WET CHARGED VERSION



LOW MAINTENANCE



ANTI EXPLOSION



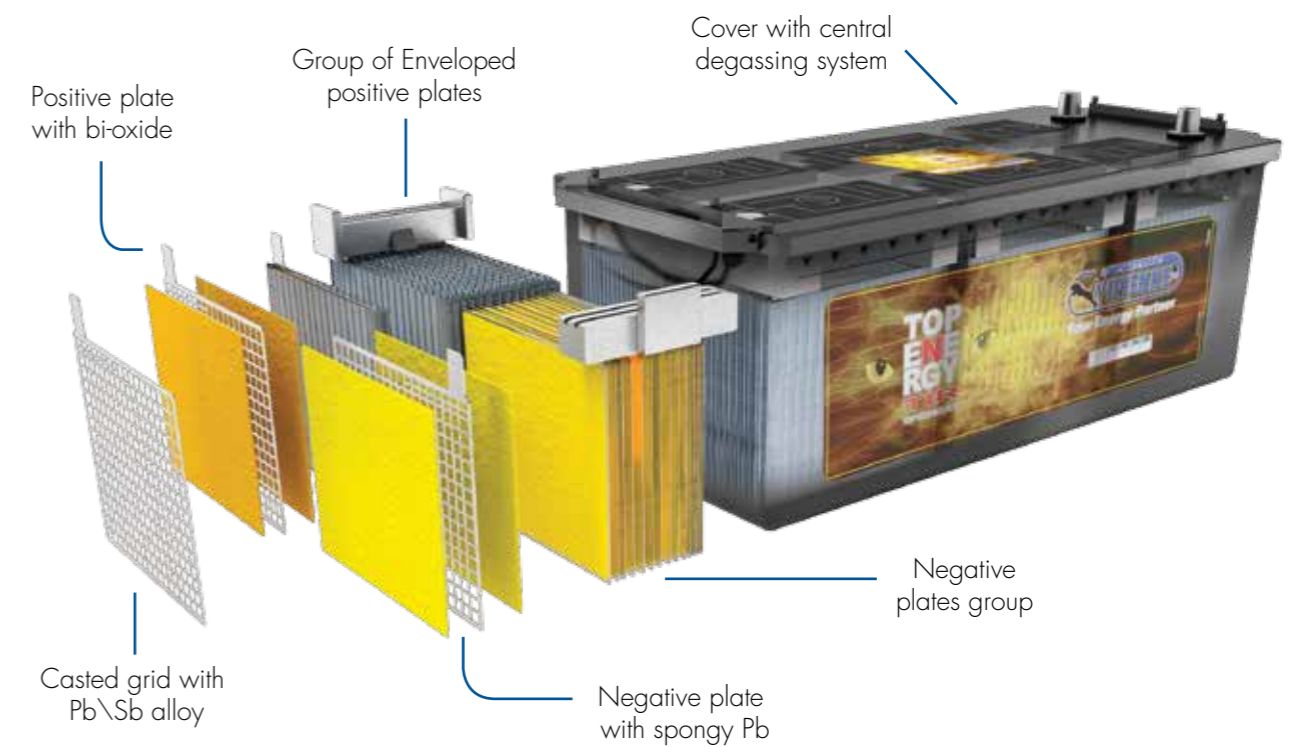
ENVELOPE SEPARATOR



ANTI VIBRATION



LOW SELF-DISCHARGE



- Wet charged and ready to use from 140 to 220 Ah
- Casted grids technology with Pb\Sb
- New grid design
- Thicker plates
- Polyethylene envelope separator
- Vibrations resistant (V2)
- Very low self-discharge
- Maintenance free
- Sealed lid with centralised degasification

Battery code	Dimensions max mm.			Voltage V	Capacity Ah	Discharge EN (A)	Box	Polarity and layout	Type of terminal	Hold down to the base	Weight Kg (±5%)	Quantity per pallet
	Length	Width	H.Tot									
B249S	280	267	231	12	100	850	EL110 NATO	Left/Right	1	BO	21,0	8x4
B248S	280	267	231	12	125	1000	EL110 NATO	Left/Right	1	BO	24,0	8x4
B137S	509	210	209	12	140	1020	MAC140	Left	1	BO	27,0	7x3

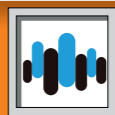
Battery code	Dimensions max mm.			Voltage V	Capacity Ah	Discharge EN (A)	Box	Polarity and layout	Type of terminal	Hold down to the base	Weight Kg (±5%)	Quantity per pallet
	Length	Width	H.Tot									
B121C	513	190	223	12	140	950	A/plane	Left	1	BO	35,6	8x3
B157C	513	223	223	12	180	1150	B/plane	Left	1	BO	45,0	7x3
B183C	518	273	243	12	220	1250	C/plane	Left	1	BO	56,5	6x3

SPIRIT ENERGY TIR

WET CHARGED VERSION



LOW MAINTENANCE



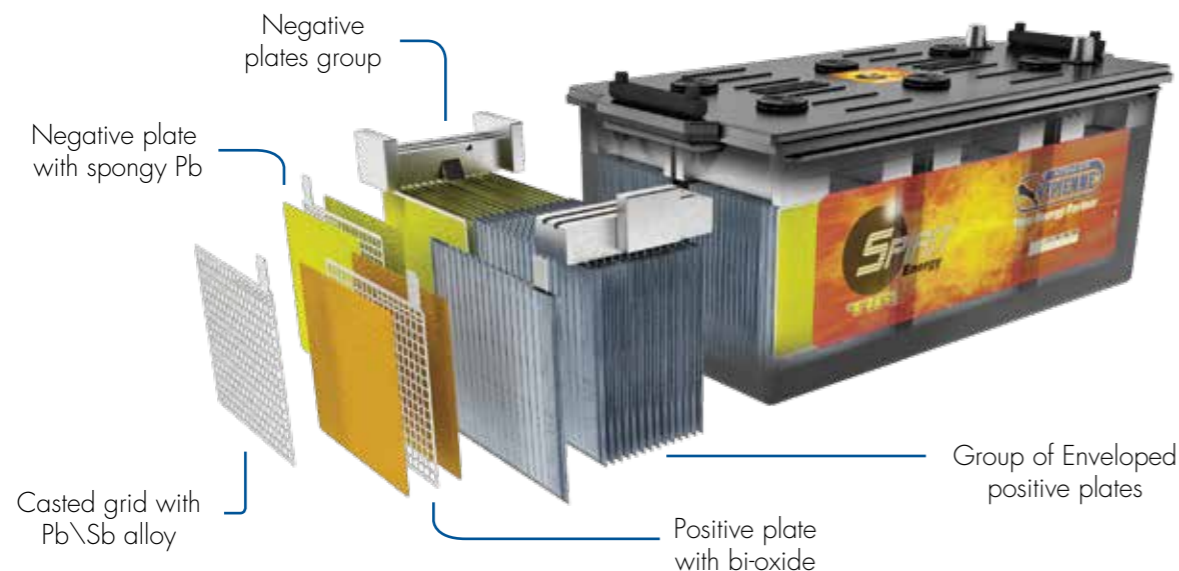
ENVELOPE SEPARATOR



ANTI VIBRATION



LOW SELF-DISCHARGE



- Wet charged and ready to use from 105 to 240 Ah
- Casted grids technology with Pb\Sb
- New grid design
- Hi-performance polyethylene envelope separator
- Low self-discharge
- Vibration resistant (V1)
- Maintenance free

Battery code	Dimensions max mm.			Voltage V	Capacity Ah	Discharge EN (A)	Box	Polarity and layout	Type of terminal	Hold down to the base	Weight Kg (±5%)	Quantity per pallet
	Length	Width	H.Tot									
B390C	343	175	232	12	105	750	98COMP	Right	1	B0	26,5	12x2
B336C	513	190	223	12	140	960	A	Left	1	B0	35,6	8x3
B388C	514	175	210	12	140	1020	MAC110D	Left	1	B3	355	8x3
B392C	513	223	223	12	160	1020	B	Left	1	B0	41,5	7x3
B338C	513	223	223	12	180	1140	B	Left	1	B0	43,0	7x3
B335C	513	223	223	12	200	1200	B	Left	1	B0	46,0	7x3
B394C	518	273	242	12	210	1250	C	Left	1	B0	56,5	6x3
B340C	518	273	242	12	240	1400	C	Left	1	B0	59,0	6x3

TRACTOR 6V

DRY CHARGED & WET CHARGED VERSION



LOW MAINTENANCE



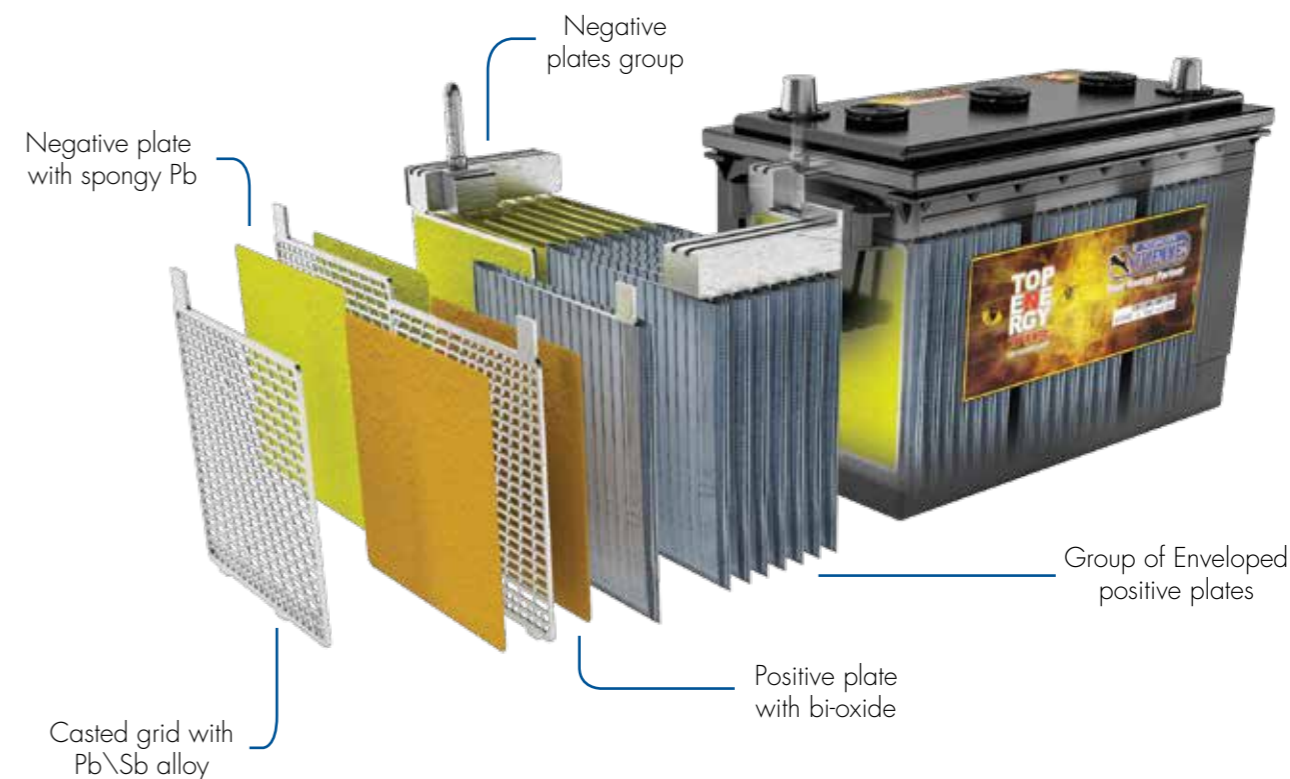
ENVELOPE SEPARATOR



ANTI VIBRATION



LOW SELF-DISCHARGE

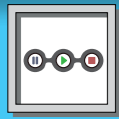


- Dry charged and ready to use from 66 to 160 Ah
- Casted grids technology with Pb\Sb
- Thicker plates
- Polyethylene envelope separator
- Vibrations resistant (V2)
- Low self-discharge
- Low maintenance
- Long life cycle

Battery code	Dimensions max mm.			Voltage V	Capacity Ah	Discharge EN (A)	Box	Polarity and layout	Type of terminal	Hold down to the base	Weight Kg (±5%)	Quantity per pallet
	Length	Width	H.Tot									
B350C	213	168	185	6	66	500	66 6V	Left/Right	1	B4	10,9	24x3
B228C	213	168	177	6	77	650	77 6V	Left/Right	1	B1/B6	11,1	24x3
B352C	158	165	219	6	84	480	M1 6V	Left/Right	1	B0	11,2	32x3
B224S	256	175	230	6	140	1000	M4 6V	Left/Right	1	B1	12,6	18x3
B226S	330	175	235	6	160	1090	M5 6V	Left/Right	1	B0	16,0	14x3

MARINA

WET CHARGED VERSION



ENERGY ON BOARD



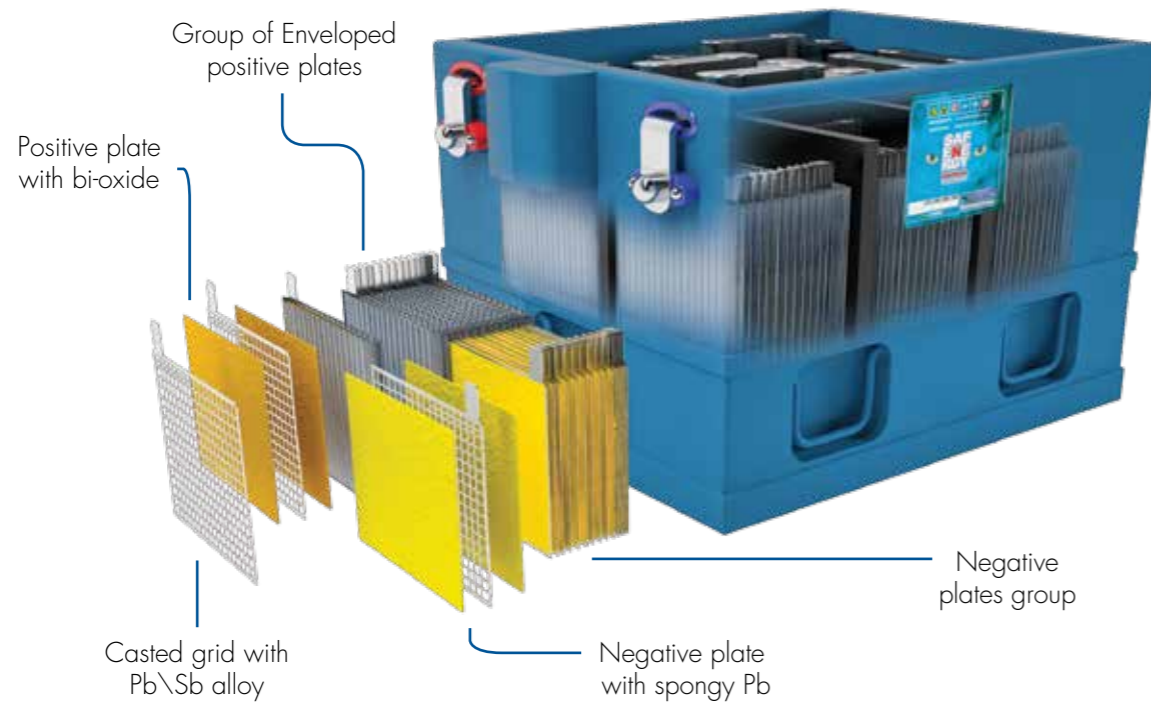
ENVELOPE SEPARATOR



ANTI VIBRATION



LOW SELF-DISCHARGE



- Wet charged and ready to use from 240 to 350 Ah
- Casted grids technology with Pb\Sb
- Thicker plates
- Polyethylene envelope separator
- Vibrations resistant
- Long life cycle
- Reduced maintenance
- Only manufactured for specific orders

Battery code	Dimensions max mm.			Voltage V	Capacity Ah	Discharge EN (A)	Box	Polarity and layout	Type of terminal	Hold down to the base	Weight Kg (±5%)	Quantity per pallet
	Lenght	Width	H.Tot									
B241C	430	400	280	12	240	910	UNI10	Left	1	B3	71,0	4x2
B242C	600	250	260	12	240	910	Tonno	Left	1	B0	74,0	4x2
B243C	430	400	280	12	280	1090	UNI10	Left	1	B3	77,5	4x2
B244C	600	330	280	12	340	1270	Balena	Right	1	B0	98,5	4x2
B245C	535	380	260	12	350	1270	UNI14	Left	1	B0	98,5	4x2

HEART

WET CHARGED VERSION



ENERGY ON BOARD



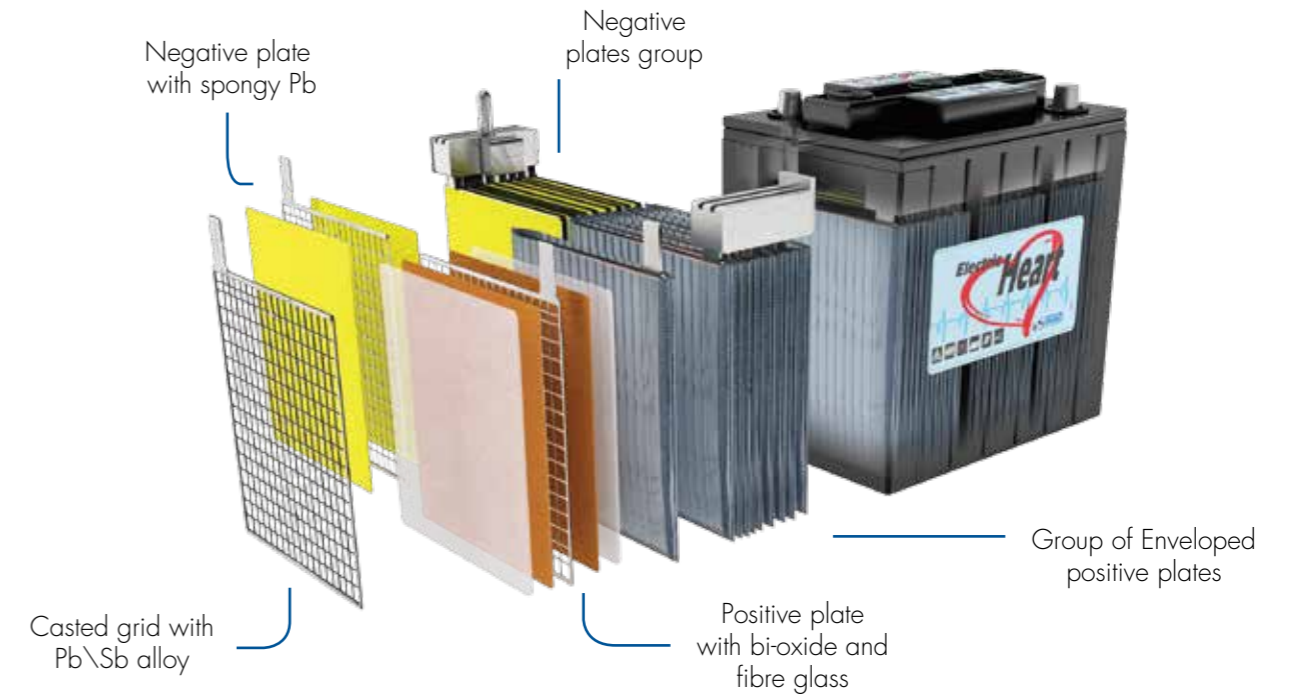
ENVELOPE SEPARATOR



ANTI VIBRATION



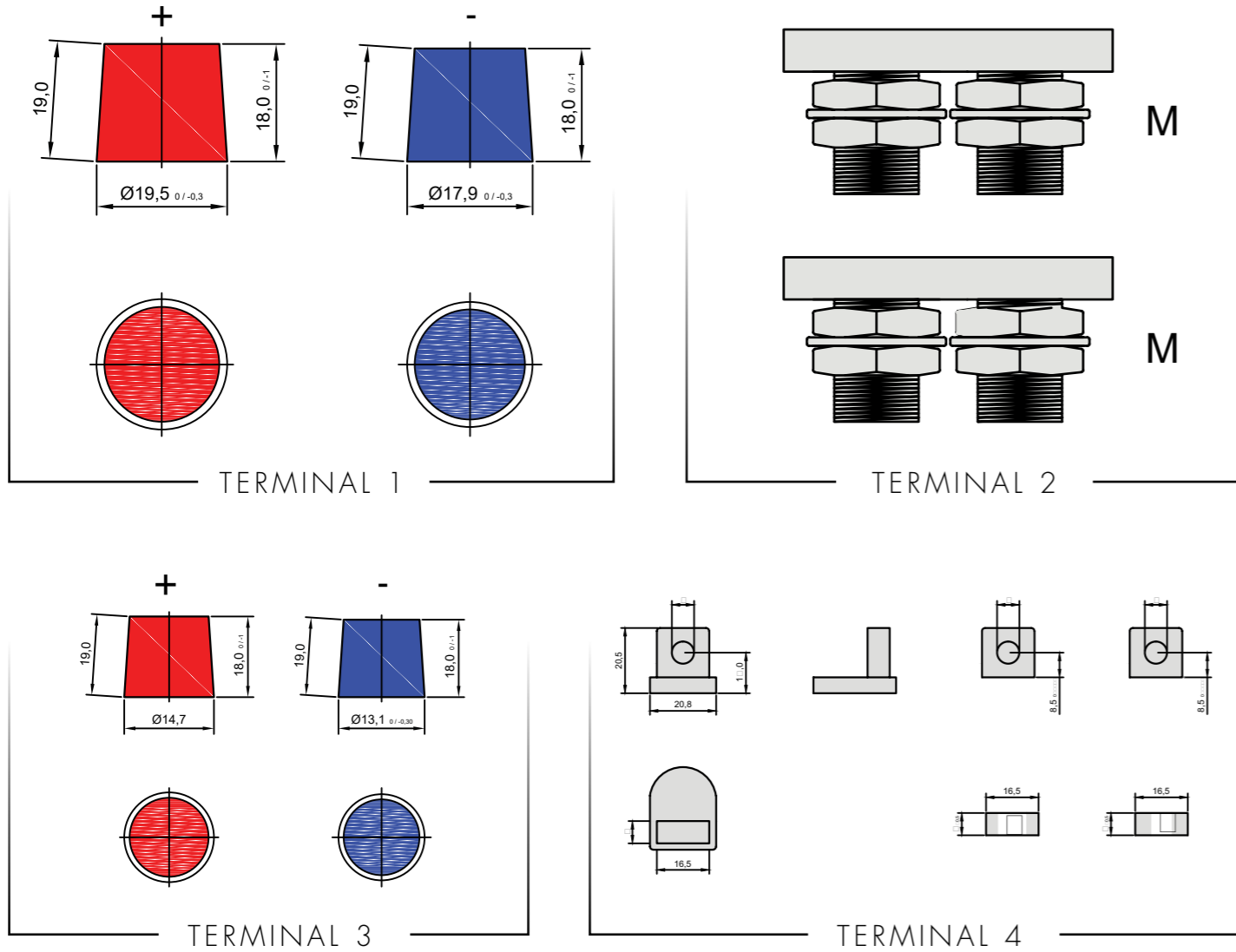
FIBRE GLASS



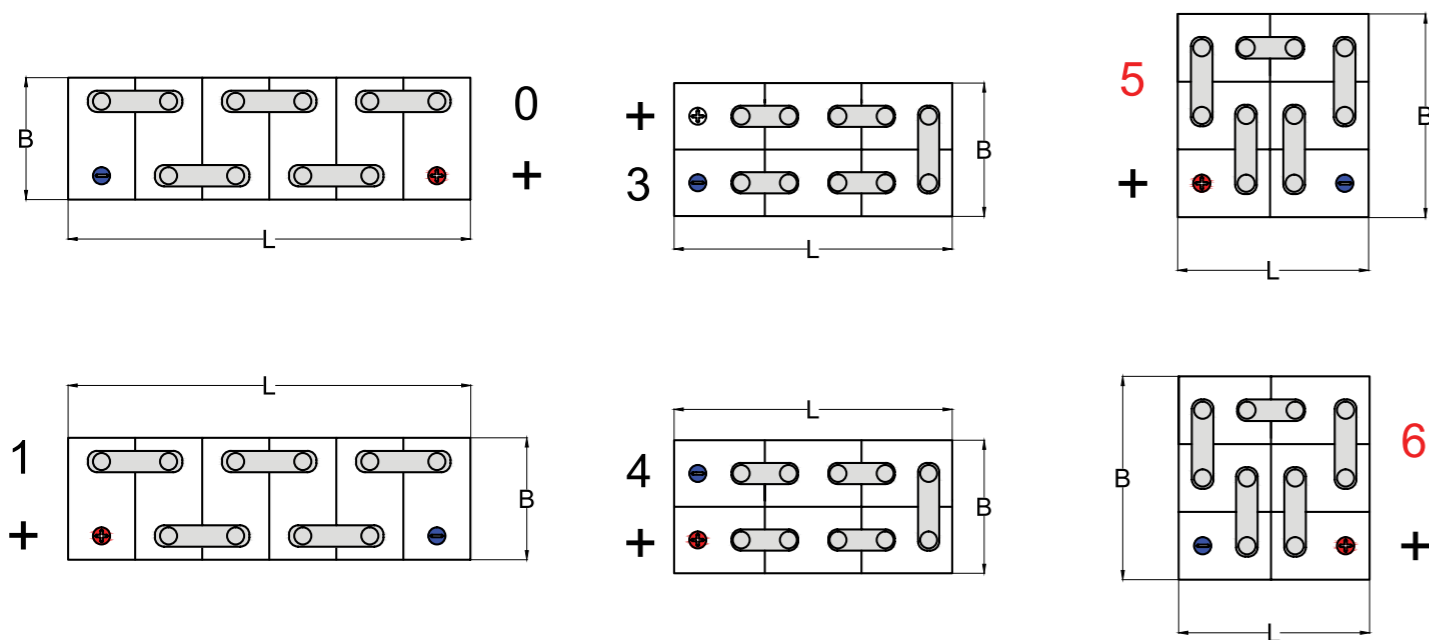
- Wet charged and ready to use from 105 to 240 Ah
- Casted grids technology with Pb\Sb
- Stationary and small traction
- Flat plates with high thicknesses
- Envelope separator with glass wool
- Low maintenance
- Long life cycle

Battery code	Dimensions max mm.			Voltage V	Capacity			Box	Polarity and layout	Hold down to the base	Weight Kg (±5%)	Quantity per pallet
	Lenght	Width	H.Tot		C20	C10	C5					
B258C	323	175	215	12	105	96	89	GR28	Right	B1	28,0	12x3
B262C	343	175	232	12	115	105	97	98COMP	Right	B0	31,5	12x2
B266C	513	190	223	12	140	129	119	A\plane	Left	B0	37,5	8x3
B268C	513	223	223	12	185	170	157	B\plane	Left	B0	46,0	7x3
B269C	518	273	242	12	230	207	191	C\plane	Left	B0	60,0	6x3
B250C	244	190	275	6	240	220	200	Modular	Left/Right	B0	32,0	16x2

TYPE OF TERMINALS



BATTERY LAYOUT 12V

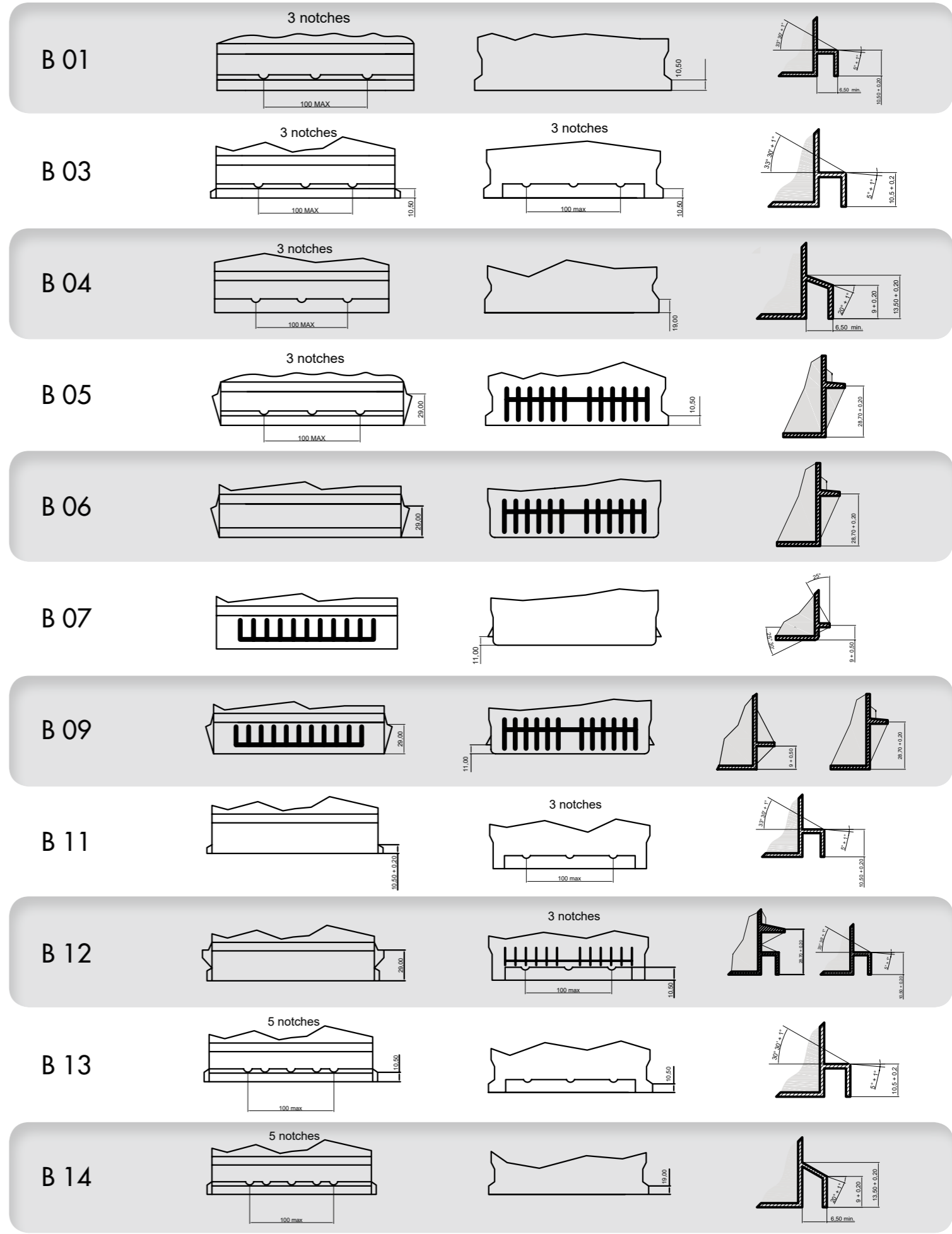


CODE

B3=B4: with adapters

B 00

Without hold down



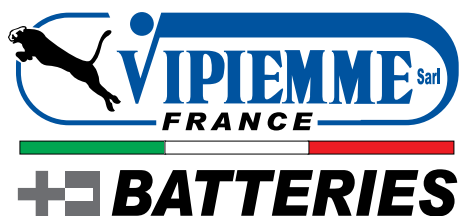
NOTES

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